

Energy levels and branching ratios [93Oh12].

 $^{123}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | $T_{1/2}$ or Γ_{cm} | Ref. | Branching ratios in percentage | | | | | | | |
|----------------|--------------------------|--------------------------------------|--------|--------------------------------|------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------------------|---------------------------------|
| | | | | $E_f^*:$ $2J_f^\pi:$ | 0.0 $\langle 1 \rangle^+$ | 97.3 $\langle 3 \rangle^+$ | 180.6 $\langle 5 \rangle^+$ | 185.2 $7 \langle - \rangle$ | 206.3 $\langle 9 \rangle^-$ | 251.9 $\langle 5, 7 \rangle^+$ | 263.3 $\langle 11 \rangle^-$ |
| 0.0 | 1^+ | 2.08(2) h | 01Ga25 | | | | | | | | |
| 97.31(6) | 3^+ | 380(30) ps | 01Ga25 | | 100 | | | | | | |
| 180.60(7) | 5^+ | 2.5(2) ns | 01Ga25 | | 14(3) | 86(9) | | | | | |
| 185.18(22) | 7^- | 5.49(26) μs | 01Ga25 | | | | x | | | | |
| 206.27(24) | 9^- | 11.8(14) ns | 01Ga25 | | | | | 100 | | | |
| 251.91(14) | 7^+ | | 01Ga25 | | | | 90(9) | 10(3) | | | |
| 263.27(23) | 11^- | 1.5(3) ns | 01Ga25 | | | | | 3(1) | 97(10) | | |
| 307.01(7) | 5^+ | | | | 95(10) | 5.0(6) | | | | | |
| 437.37(12) | 7^+ | | | | 40(7) | 52(5) | | | | | |
| 442.40(10) | $\langle 3 \rangle^+$ | | | | 21(3) | 8(1) | 70(7) | | | | |
| 466.91(14) | 7^+ | | | | | | 85(8) | | | 15(4) | |
| 518.34(20) | 9^+ | | | | | | | | | 83(8) | 17(5) |
| 567.9* | $\langle 7 \rangle^-$ | | | | | | | | | | |
| 585.64(14) | $\langle 1, 3 \rangle$ | | | | | 37(7) | 39(7) | | | 25(5) | |
| 596.66(8) | $\langle 1, 3 \rangle^+$ | | | | 88(11) | 12(2) | | | | | |
| 611.11(10) | $\langle 1, 3 \rangle$ | | | | 56(8) | 28 | 4.4(11) | | | | |
| 614.4* | | | | | | | | | | | |
| 662.0(3) | 13^- | | | | | | | | 10(1) | | 90(9) |
| 693.77(17) | $\langle 1, 3 \rangle$ | | | | 100 | | | | | | |
| 719.1(3) | 15^- | 12.5(21) ps | | | | | | | | | 100 |
| 731.21(15) | 9^+ | | | | | | 29(9) | | | 29(9) | |
| 741.40(9) | $\langle 1, 3 \rangle^+$ | | | | 48(7) | 37(6) | | | | | |
| 750.9* | $9^-, 11^-$ | | | | | | | | | | |
| 759.8* | $\langle 5 \rangle^-$ | | | | | | | | | | |
| 767.51(21) | 11^+ | | | | | | | | | 90(9) | |
| 776.9* | | | | | | | | | | | |
| 798.11(17) | 9^+ | | | | | | | | | | |
| 848.0* | | | | | | | | | | | |
| 848.49(11) | $\langle 1, 3 \rangle$ | | | | 7(2) | 30(3) | 39(6) | | | | |
| 864.1* | $5^+, 7^+$ | | | | | | | | | | |
| 868.0* | 11^- | | | | | | | | | | |
| 877.2(3) | 13^- | | | | | | | | 52(5) | | 48(5) |
| 918.8* | | | | | | | | | | | |
| 934.58(24) | 11^+ | | | | | | | | | | |
| 971.2* | 11^- | | | | | | | | | | |
| 1032.1(3) | $\langle 1, 3 \rangle$ | | | | | 53(16) | | | | | |
| 1041.7* | $\langle 11 \rangle^-$ | | | | | | | | | | |
| 1046.5* | $7, 9$ | | | | | | | | | | |
| 1051.0(3) | 11^+ | | | | | | | | | | |
| 1054.6* | | | | | | | | | | | |
| 1082.0(2) | 13^- | | | | | | | | | | |
| 1145.6* | $9, 11$ | | | | | | | | | | |
| 1260.3* | 13^- | | | | | | | | | | |
| 1270.0(3) | 15^- | | | | | | | | | | |
| 1278.3* | | | | | | | | | | | |

(continued)

 $^{123}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | $T_{1/2}$ or Ref. Γ_{cm} | Branching ratios in percentage | | | | | | | |
|----------------|------------------------|---|--------------------------------|------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------------------|---------------------------------|
| | | | $E^*_f:$ $2J^\pi_f:$ | 0.0 $\langle 1 \rangle^+$ | 97.3 $\langle 3 \rangle^+$ | 180.6 $\langle 5 \rangle^+$ | 185.2 $7 \langle - \rangle$ | 206.3 $\langle 9 \rangle^-$ | 251.9 $\langle 5, 7 \rangle^+$ | 263.3 $\langle 11 \rangle^-$ |
| 1293.9(3) | 17 ⁻ | | | | | | | | | |
| 1325.5* | | | | | | | | | | |
| 1336.1(4) | 19 ⁻ | ≤ 3.5 ps | | | | | | | | |
| 1339.2* | $\langle 13 \rangle^+$ | | | | | | | | | |
| 1384.5* | | | | | | | | | | |
| 1397.7(3) | 15 ⁺ | | | | | | | | | |
| 1430.9* | 13 ⁺ | | | | | | | | | |
| 1452.9(2) | $\langle 1, 3 \rangle$ | | | | 47(13) | | | | | |
| 1520.1* | | | | | | | | | | |
| 1521.9(3) | 17 ⁻ | | | | | | | | | |
| 1541.0(4) | 15 ⁻ | | | | | | | | | |
| 1554.0(3) | 15 ⁺ | | | | | | | | | |
| 1580.6* | | | | | | | | | | |
| 1618.7* | | | | | | | | | | |
| 1696.6* | | | | | | | | | | |
| 1733.4* | | | | | | | | | | |
| 1758.2* | 17 ⁺ | | | | | | | | | |
| 1759.2* | | | | | | | | | | |
| 1827.8* | 17 ⁻ | | | | | | | | | |
| 1841.8* | | | | | | | | | | |
| 1947.8* | 15 ⁻ | | | | | | | | | |
| 1949.2* | | | | | | | | | | |
| 1953.5* | | | | | | | | | | |
| 2063.0(4) | 21 ⁻ | | | | | | | | | |
| 2089.4(4) | 23 ⁻ | | | | | | | | | |
| 2112.6(4) | 19 ⁺ | | | | | | | | | |
| 2144.9* | | | | | | | | | | |
| 2197.0* | | | | | | | | | | |
| 2210.0* | | | | | | | | | | |
| 2226.1* | | | | | | | | | | |
| 2230.9* | 19 ⁺ | | | | | | | | | |
| 2248.8* | | | | | | | | | | |
| 2284.3* | | | | | | | | | | |
| 2416.4* | | | | | | | | | | |
| 2422.7* | 19 ⁺ | | | | | | | | | |
| 2497.8* | 21 ⁺ | | | | | | | | | |
| 2689.7* | 21 ⁺ | | | | | | | | | |
| 2770.4* | | | | | | | | | | |
| 2822.5* | 23 ⁺ | | | | | | | | | |
| 2881.6(11) | 23 ⁺ | | | | | | | | | |
| 2896.4(11) | | | | | | | | | | |
| 2951.5* | | | | | | | | | | |
| 2964.6* | 23 ⁺ | | | | | | | | | |
| 2980.4(11) | $\langle 27 \rangle^-$ | | | | | | | | | |
| 3169.5* | 25 ⁺ | | | | | | | | | |

(continued)

 $^{123}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | $T_{1/2}$ or Ref. Γ_{cm} | Branching ratios in percentage | | | | | | | |
|----------------|------------------------|---|--------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|-----------------------------------|---------------------------------|
| | | | E_f^* : $2J_f^\pi$: | 0.0 $\langle 1 \rangle^+$ | 97.3 $\langle 3 \rangle^+$ | 180.6 $\langle 5 \rangle^+$ | 185.2 $7\langle - \rangle$ | 206.3 $\langle 9 \rangle^-$ | 251.9 $\langle 5, 7 \rangle^+$ | 263.3 $\langle 11 \rangle^-$ |
| 3350.9* | 27^+ | | | | | | | | | |
| 3479.5* | 27^+ | | | | | | | | | |
| 3966.4(15) | $\langle 31 \rangle^-$ | | | | | | | | | |
| 4060.4(15) | | | | | | | | | | |
| 5023.4(18) | $\langle 35 \rangle^-$ | | | | | | | | | |

Additional data on this isotope can be found in [02Ra34, 00Ra34].

* Level introduced in [01Ga25] in addition to NDS [93Oh12]; see there a comparison of experimental data with predictions of the Rigid Triaxial Rotor plus Particle model (RTRP) and with data for other A-odd Xe isotopes.

Energy levels and branching ratios [93Oh12]. Part 2

 $^{123}_{54}\text{Xe}$

| E^* | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|------------|-------------------------|--------------------------------|----------------------------------|--------------------------------|-------|--------------------------------|----------------------------------|--------------------------------|-------------------------------|--------------------------------|---------------------------------|----------------------------------|
| [keV] | | E_f^* : $2J_f^\pi$: | 307.0 $\langle 3,5 \rangle^+$ | 437.4 $\langle 7 \rangle^+$ | 466.9 | 518.3 $\langle 9 \rangle^+$ | 596.7 $\langle 1,3 \rangle^+$ | 611.1 $\langle 1,3 \rangle$ | 662 $\langle 13^- \rangle$ | 693.8 $\langle 1,3 \rangle$ | 719.1 $\langle 15^- \rangle$ | 741.4 $\langle 1,3 \rangle^+$ |
| 437.37(12) | 7^+ | | 8(1) | | | | | | | | | |
| 611.11(10) | $\langle 1,3 \rangle$ | | 12(2) | | | | | | | | | |
| 731.21(15) | 9^+ | | | | 41(4) | | | | | | | |
| 741.40(9) | $\langle 1,3 \rangle^+$ | | 13(2) | | | | | 1(2) | | | | |
| 767.51(21) | 11^+ | | | | | 10(4) | | | | | | |
| 798.11(17) | 9^+ | | 40(2) | | 60(6) | | | | | | | |
| 848.49(11) | $\langle 1,3 \rangle$ | | 15(2) | | | | 3.2(3) | 4 | | 3(1) | | |
| 934.58(24) | 11^+ | | | 100 | | | | | | | | |
| 1032.1(3) | $\langle 1,3 \rangle$ | | 47(11) | | | | | | | | | |
| 1051.0(3) | 11^+ | | | | | 100 | | | | | | |
| 1082.0(2) | 13^- | | | | | 81(8) | | | | | | |
| 1270.0(3) | 15^- | | | | | | | | 56(6) | | 28(3) | |
| 1293.9(3) | 17^- | | | | | | | | 60(6) | | 40(4) | |
| 1336.1(4) | 19^- | | | | | | | | | | 100 | |
| 1452.9(2) | $\langle 1,3 \rangle$ | | | | | | | 22(5) | | | | 31(5) |
| 1521.9(3) | 17^- | | | | | | | | | | 24(8) | |
| 1541.0(4) | 15^- | | | | | | | | 100 | | | |

Energy levels and branching ratios [93Oh12]. Part 3

¹²³Xe
₅₄

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|------------------------|--------------------------------|-------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|--------|----------------------------------|--------|----------------------------------|----------------------------------|
| | | E_f^* : $2J_f^\pi$: | 767.5 | 877.2 $\langle 13^- \rangle$ | 934.6 $\langle 11 \rangle^+$ | 1293.9 $\langle 17^- \rangle$ | 1336.1 $\langle 19^- \rangle$ | 1397.7 | 2089.4 $\langle 23^- \rangle$ | 2112.6 | 2980.4 $\langle 27^- \rangle$ | 3966.4 $\langle 31^- \rangle$ |
| 1082.0(2) | 13 ⁻ | | 19(5) | | | | | | | | | |
| 1270.0(3) | 15 ⁻ | | | 16(4) | | | | | | | | |
| 1397.7(3) | 15 ⁺ | | 100 | | | | | | | | | |
| 1521.9(3) | 17 ⁻ | | | 76(8) | | | | | | | | |
| 1554.0(3) | 15 ⁺ | | | | 100 | | | | | | | |
| 2063.0(4) | 21 ⁻ | | | | | 100 | | | | | | |
| 2089.4(4) | 23 ⁻ | | | | | | 100 | | | | | |
| 2112.6(4) | 19 ⁺ | | | | | | | 100 | | | | |
| 2881.6(11) | 23 ⁺ | | | | | | | | | 100 | | |
| 2896.4(11) | | | | | | | | | 100 | | | |
| 2980.4(11) | $\langle 27^- \rangle$ | | | | | | | | 100 | | | |
| 3966.4(15) | $\langle 31^- \rangle$ | | | | | | | | | | 100 | |
| 4060.4(15) | | | | | | | | | | | 100 | |
| 5023.4(18) | $\langle 35^- \rangle$ | | | | | | | | | | | 100 |

Energy levels and branching ratios [97Ii01].

¹²⁴Xe
₅₄

| E^* [keV] | J^π | σ (τ, n) $\mu\text{b/sr}$ | ε (τ, n) | $T_{1/2}$ or Γ_{cm} | Ref. | Branching ratios in percentage | | | | | |
|----------------|-----------------------|--|--------------------------------|--------------------------------------|--------|--------------------------------|-----------------------|-------------------------|-------------------------|-------------------------|------------------------|
| | | | | | | E_f^* : J_f^π : | 0.0 0 ⁺ | 354.1 2 ⁺ | 846.6 2 ⁺ | 879.0 4 ⁺ | 1248 3 ⁺ |
| 0.0 | 0 ⁺ | 334 | 2.24 | $\geq 1.1 \cdot 10^{17}$ yr | 79Al14 | | | | | | |
| 354.14(4) | 2 ⁺ | | | 33(2) ps | | | 100 | | | | |
| 846.61(4) | 2 ⁺ | | | 6.9(14) ps | | | 24.9(5) | 75(3) | | | |
| 879.03(5) | 4 ⁺ | | | 3.5(4) ps | | | | 100 | | | |
| 1248.04(6) | 3 ⁺ | | | 6.2(14) ps | | | | 59(2) | 37(2) | 4.6(7) | |
| 1268.95(6) | 0 ⁺ | | | | | x | | 90(3) | 9.7(5) | | |
| 1438.05(7) | 4 ⁺ | | | 2.1(7) ps | | | | x | 70(3) | 30(8) | |
| 1548.78(7) | 6 ⁺ | | | 0.9(3) ps | | | | | | 100 | |
| 1628.69(5) | 2 ⁺ | | | | | 48(3) | 24(1) | 11(1) | | 10(1) | |
| 1690.02(7) | 0 ⁺ | 122 | 0.72 | | 79Al14 | x | 86(5) | 13.6(14) | | | |
| 1837.33(8) | 5 ⁺ | | | 3.1(4) ps | | | | | | 24(4) | 60(3) |
| 1873.4 | 4 ⁺ | | | | 01We13 | | | | | | |
| 1898.0 | 3 ⁽⁻⁾ | | | | 06Mu04 | | | | | | |
| 1978.59(6) | 2 | | | | | 25(3) | 18(2) | 38(7) | | 19(2) | |
| 1994.3 | | | | | 01We13 | | | | | | |
| 2014.7 | 4 ⁺ | | | | 01We13 | | | | | | |
| 2144.17(18) | 6 ⁺ | | | 4.2 ps | | | | | | | |
| 2164.9 | | | | | 01We13 | | | | | | |
| 2205.47(7) | $\langle 2^+ \rangle$ | | | | | | | 62(6) | 29(2) | 8.9(9) | |
| 2222.8 | 4,5 | | | | 01We13 | | | | | | |
| 2226.58(23) | 5 ⁽⁻⁾ | | | | 01We13 | | | | | 100 | |
| 2279.3 | | | | | 01We13 | | | | | | |

(continued)

¹²⁴Xe
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| E^* | J^π | σ (τ, n) | ε | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|-------------|-------------------------------------|------------------------|---------------|----------------------|--------|--|-----------------------|-------------------------|-------------------------|-------------------------|------------------------|
| [keV] | | $\mu\text{b/sr}$ | (τ, n) | Γ_{cm} | | E^*_f : J^π_f : | 0.0 0 ⁺ | 354.1 2 ⁺ | 846.6 2 ⁺ | 879.0 4 ⁺ | 1248 3 ⁺ |
| 2281.6 | | | | | 01We13 | | | | | | |
| 2290.7 | | | | | 01We13 | | | | | | |
| 2331.64(8) | 8 ⁺ | | | 1.0(4) ps | | | | | | | |
| 2360.7 | 5 ⁺ | | | | 01We13 | | | | | | |
| 2367.2 | | | | | 01We13 | | | | | | |
| 2373.72(7) | $\langle 0 \rangle^+$ | 67 | 0.38 | | 79Al14 | x | | 89(7) | 5.7(5) | | |
| 2381.01(12) | 5,6 | | | | 01We13 | | | | | | |
| 2382.09(10) | 1 ⁽⁺⁾ , 2 ⁽⁺⁾ | | | | | 100 | | | | | |
| 2508.9 | 5,6 | | | | 01We13 | | | | | | |
| 2519.62(6) | 2 ⁺ | | | | | 10(1) | 72(6) | 2(1) | 6(1) | 10(1) | |
| 2531.8 | 6 ⁽⁺⁾ | | | | 01We13 | | | | | | |
| 2535.98(8) | 0 ⁺ –2 ⁺ | | | | | | 6.6(7) | 93(7) | | | |
| 2575.24(14) | 7 ⁺ | | | 3.5 ps | | | | | | | |
| 2579.28(17) | 6 [−] | | | | 01We13 | | | | | | |
| 2600.6 | | | | | 01We13 | | | | | | |
| 2625.5 | | | | | 01We13 | | | | | | |
| 2626.13(11) | 7 [−] | | | 102(10) ps | | | | | | | |
| 2644.9 | | | | | 01We13 | | | | | | |
| 2647.6 | 6 | | | | 01We13 | | | | | | |
| 2676.51(10) | $\langle 7^- \rangle$ | | | 1.0(6) ps | | | | | | | |
| 2682.6 | | | | | 01We13 | | | | | | |
| 2700.5 | | | | | 01We13 | | | | | | |
| 2729.0 | | | | | 01We13 | | | | | | |
| 2758.49(8) | $\langle 1^+, 2^+ \rangle$ | | | | | 43(4) | | | | | 43(4) |
| 2769.2(3) | 7 ⁺ | | | | | | | | | | |
| 2779.0 | | | | | 01We13 | | | | | | |
| 2791.89(12) | $\langle 1^+, 2 \rangle$ | | | | | | | | | | 100 |
| 2799.9(4) | $\langle 1, 2^+ \rangle$ | | | | | 41(2) | 59(29) | | | | |
| 2810.55(11) | 8 [−] | | | 0.75(4) ns | | | | | | | |
| 2825.68(9) | $\langle 1, 2^+ \rangle$ | | | | | 4(2) | 59(8) | <18 | | | |
| 2867.4 | | | | | 01We13 | | | | | | |
| 2869.2 | | | | | 01We13 | | | | | | |
| 2900.0 | | | | | 01We13 | | | | | | |
| 2912.90(25) | 8 ⁺ | | | | | | | | | | |
| 2959.1 | | | | | 01We13 | | | | | | |
| 2984.2 | | | | | 01We13 | | | | | | |
| 3013.3 | 8 | | | | 01We13 | | | | | | |
| 3026.2 | | | | | 01We13 | | | | | | |
| 3032.2 | [X ⁺] | | | | 01We13 | | | | | | |
| 3071.1 | | | | | 01We13 | | | | | | |
| 3096.07(21) | 8 [−] | | | | | | | | | | |
| 3110.1 | | | | | 01We13 | | | | | | |
| 3112.46(12) | 9 [−] | | | 21(3) ps | | | | | | | |
| 3131.9 | | | | | 01We13 | | | | | | |
| 3148.59(8) | $\langle 9^- \rangle$ | | | 3.5(7) ps | | | | | | | |

(continued)

¹²⁴Xe
54

| E^* | J^π | σ (τ, n) | ε | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|-------------|----------------------------|------------------------|---------------|----------------------|--------|--------------------------------|-----------------------|-------------------------|-------------------------|-------------------------|------------------------|
| [keV] | | $\mu\text{b/sr}$ | (τ, n) | Γ_{cm} | | E_f^* : J_f^π : | 0.0 0 ⁺ | 354.1 2 ⁺ | 846.6 2 ⁺ | 879.0 4 ⁺ | 1248 3 ⁺ |
| 3172.14(9) | 10 ⁺ | | | 1.5(3) ps | | | | | | | |
| 3241.4 | | | | | 01We13 | | | | | | |
| 3274.61(12) | | | | | | | | | | | |
| 3344.5(4) | $\langle 9^+ \rangle$ | | | | 01We13 | | | | | | |
| 3462.53(17) | 10 ⁻ | | | | 01We13 | | | | | | |
| 3476.7 | | | | | 01We13 | | | | | | |
| 3503.35(23) | $\langle 10^+ \rangle$ | | | | 01We13 | | | | | | |
| 3557.7(4) | | | | | | | | | | | |
| 3582.22(12) | $\langle 1, 2^+ \rangle$ | | | | | | | | | | |
| 3670.4(4) | $\langle 10^+ \rangle$ | | | | | | | | | | |
| 3677.31(24) | | | | | | | | | | | |
| 3718.01(22) | 10 ⁻ | | | | 01We13 | | | | | | |
| 3787.8(4) | 11 ⁻ | | | | 01We13 | | | | | | |
| 3823.62(13) | 11 ⁻ | | | 0.8(6) ps | 01We13 | | | | | | |
| 3883.94(15) | 12 ⁺ | | | 2.8 ps | 01We13 | | | | | | |
| 3897.0(5) | $\langle 0^{+-} 2 \rangle$ | | | | | | | | 100 | | |
| 3956.8(4) | | | | | | | | | | | |
| 4003.5(5) | 11 ⁺ | | | | 01We13 | | | | | | |
| 4216.21(18) | 12 ⁻ | | | | 01We13 | | | | | | |
| 4300.04(24) | | | | | | | | | | | |
| 4422.07(24) | | | | | | | | | | | |
| 4574.8(5) | | | | | | | | | | | |
| 4599.07(25) | $\langle 13^- \rangle$ | | | 1.7(10) ps | | | | | | | |
| 4613.42(15) | $\langle 14^+ \rangle$ | | | | | | | | | | |
| 4743.5(6) | | | | | | | | | | | |
| 4760.6(5) | | | | | | | | | | | |
| 5067.7(4) | | | | | | | | | | | |
| 5182.7(3) | | | | | | | | | | | |
| 5434.1(4) | $\langle 15^- \rangle$ | | | 2.9(8) ps | | | | | | | |
| 5462.3(6) | | | | | | | | | | | |
| 5466.02(23) | $\langle 16^+ \rangle$ | | | | | | | | | | |
| 5592.9(7) | | | | | | | | | | | |
| 5975.0(4) | | | | | | | | | | | |
| 6134.6(5) | | | | | | | | | | | |
| 6439.1(4) | $\langle 18^+ \rangle$ | | | | | | | | | | |
| 7031.2(6) | | | | | | | | | | | |
| 7453.1(11) | $\langle 20^+ \rangle$ | | | | | | | | | | |
| 7637.5(6) | | | | | | | | | | | |
| 7941.2(12) | | | | | | | | | | | |
| | | 79Al14 | 79Al14 | | Ref. | | | | | | |

Additional data on this isotope can be found in [04Sa47, 02Ra34].

Abundance: 0.095(3) %.

New or additional branching ratios can be found in [01We13].

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [97Ii01]. Part 2

¹²⁴Xe
₅₄

| E^* | J^π | Branching ratios in percentage | | | | | | | | | | |
|-------------|----------------------------|--------------------------------|------------------------|------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------|--------------------------|--------------------------|
| [keV] | | E_f^* : J_f^π : | 1269 0 ⁺ | 1438 4 ⁺ | 1549 6 ⁺ | 1628.7 2 ⁺ | 1690.0 0 ⁺ | 1837.3 5 ⁺ | 2144.2 6 ⁺ | 2226.6 | 2331.6 8 ⁺ | 2575.2 7 ⁺ |
| 1628.69(5) | 2 ⁺ | | 6.5(7) | | | | | | | | | |
| 1837.33(8) | 5 ⁺ | | | 16(8) | | | | | | | | |
| 2144.17(18) | 6 ⁺ | | | 48(15) | 52(16) | | | | | | | |
| 2331.64(8) | 8 ⁺ | | | | 100 | | | | | | | |
| 2373.72(7) | $\langle 0 \rangle^+$ | | | | | 5.7(5) | | | | | | |
| 2381.01(12) | 5,6 | | | 100 | | | | | | | | |
| 2575.24(14) | 7 ⁺ | | | | 23(7) | | | 77(8) | x | | | |
| 2579.28(17) | 6 [−] | | | | x | | | x | | | | |
| 2626.13(11) | 7 [−] | | | | x | | | | | x | | |
| 2676.51(10) | $\langle 7^- \rangle$ | | | | 100 | | | | | | | |
| 2758.49(8) | $\langle 1^+, 2^+ \rangle$ | | 13(9) | | | | | | | | | |
| 2769.2(3) | 7 ⁺ | | | | | | | | 100 | | | |
| 2810.55(11) | 8 [−] | | | | | | | | | | x | |
| 2825.68(9) | $\langle 1, 2^+ \rangle$ | | | | | 37(4) | | | | | | |
| 2912.90(25) | 8 ⁺ | | | | | | | | 100 | | | |
| 3148.59(8) | $\langle 9^- \rangle$ | | | | | | | | | | 69(3) | |
| 3172.14(9) | 10 ⁺ | | | | | | | | | | 100 | |
| 3274.61(12) | | | | | | | | | | | 100 | |
| 3344.5(4) | $\langle 9^+ \rangle$ | | | | | | | | | | | 100 |
| 3503.35(23) | $\langle 10^+ \rangle$ | | | | | | | | | | x | |
| 3557.7(4) | | | | | | | | | | | | x |
| 3582.22(12) | $\langle 1, 2^+ \rangle$ | | 94(9) | | | 6.5(7) | | | | | | |

Energy levels and branching ratios [97Ii01]. Part 3

¹²⁴Xe
₅₄

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | |
|----------------|------------------------|--------------------------------|--------|--------------------------|---------------------------------|--------------------------|--------------------------|--------|--------------------------|---------------------------------|---------------------------|
| | | E_f^* : J_f^π : | 2579.3 | 2626.1 7 ⁻ | 2676.5 $\langle 7^- \rangle$ | 2810.5 8 ⁻ | 2912.9 8 ⁺ | 3096.1 | 3112.5 9 ⁻ | 3148.6 $\langle 9^- \rangle$ | 3172.1 10 ⁺ |
| 2810.55(11) | 8 ⁻ | | | x | | | | | | | |
| 3096.07(21) | 8 ⁻ | | x | | x | | | | | | |
| 3112.46(12) | 9 ⁻ | | | 40(8) | | 60(2) | | | | | |
| 3148.59(8) | $\langle 9^- \rangle$ | | | | 31(2) | | | | | | |
| 3462.53(17) | 10 ⁻ | | | | | 100 | | | x | | |
| 3503.35(23) | $\langle 10^+ \rangle$ | | | | | | | | | | x |
| 3670.4(4) | $\langle 10^+ \rangle$ | | | | | | x | | | | |
| 3677.31(24) | | | | | | x | | | x | | |
| 3718.01(22) | 10 ⁻ | | | | | | | x | | x | |
| 3787.8(4) | 11 ⁻ | | | | | | | | 100 | | |
| 3823.62(13) | 11 ⁻ | | | | | | | | | 100 | x |
| 3883.94(15) | 12 ⁺ | | | | | | | | | | 100 |
| 4300.04(24) | | | | | | | | | | | x |

Energy levels and branching ratios [97Ii01]. Part 4

¹²⁴Xe
54

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | | |
|----------------|------------------------|--------------------------------|--------|---------------------------------|----------------------------------|--------|----------------------------------|----------------------------------|----------------------|--------|----------------------------------|--------|
| | | E_f^* : J_f^π : | 3274.6 | 3344.5 $\langle 9^+ \rangle$ | 3462.5 $\langle 10^- \rangle$ | 3718.0 | 3787.8 $\langle 11^- \rangle$ | 3823.6 $\langle 11^- \rangle$ | 3883.9 $12^{(+)}$ | 3956.8 | 4003.5 $\langle 11^+ \rangle$ | 4216.2 |
| 3956.8(4) | | | x | | | | | | | | | |
| 4003.5(5) | 11^+ | | | x | | | | | | | | |
| 4216.21(18) | 12^- | | | | 100 | | | | | | | |
| 4300.04(24) | | | | | | | | | x | | | |
| 4422.07(24) | | | | | | x | | x | | | | |
| 4574.8(5) | | | | | | | x | | | | | |
| 4599.07(25) | $\langle 13^- \rangle$ | | | | | | | 100 | | | | |
| 4613.42(15) | $\langle 14^+ \rangle$ | | | | | | | | 100 | | | |
| 4743.5(6) | | | | | | | | | | | x | |
| 4760.6(5) | | | | | | | | | | x | | |
| 5067.7(4) | | | | | | | | | | | | x |

Energy levels and branching ratios [97Ii01]. Part 5

¹²⁴Xe
54

| E^* | J^π | Branching ratios in percentage | | | | | | | | | | | |
|-------------|------------------------|--------------------------------|--------|--------|------------------------|------------------------|--------|--------|------------------------|------------------------|--------|------------------------|--------|
| [keV] | | E_f^* : | 4422.1 | 4574.8 | 4599.1 | 4613.4 | 4743.5 | 5182.7 | 5434.1 | 5466.0 | 6134.6 | 6439.1 | 7031.2 |
| | | J_f^π : | | | $\langle 13^- \rangle$ | $\langle 14^+ \rangle$ | | | $\langle 15^- \rangle$ | $\langle 16^+ \rangle$ | | $\langle 18^+ \rangle$ | |
| 5182.7(3) | | x | | | x | | | | | | | | |
| 5434.1(4) | $\langle 15^- \rangle$ | | | | 100 | | | | | | | | |
| 5462.3(6) | | | | x | | | | | | | | | |
| 5466.02(23) | $\langle 16^+ \rangle$ | | | | 100 | | | | | | | | |
| 5592.9(7) | | | | | | | x | | | | | | |
| 5975.0(4) | | | | | | | | x | x | | | | |
| 6134.6(5) | | | | | | | | | x | | | | |
| 6439.1(4) | $\langle 18^+ \rangle$ | | | | | | | | | x | | | |
| 7031.2(6) | | | | | | | | | | | x | | |
| 7453.1(11) | $\langle 20^+ \rangle$ | | | | | | | | | | | x | |
| 7637.5(6) | | | | | | | | | | | | | x |
| 7941.2(12) | | | | | | | | | | | | | x |

Energy levels and branching ratios [99Ka26].

¹²⁵Xe
54

| E^* [keV] | $2J^\pi$ | $T_{1/2}$ or Γ_{cm} | Branching ratios in percentage | | | | | | | |
|----------------|-----------|--------------------------------------|--------------------------------|------------------|--------------------|--------------------|------------|--------------------|---------------------|--------------------|
| | | | E_f^* : $2J_f^\pi$: | 0.0 $1^{(+)}$ | 111.8 $3^{(+)}$ | 252.7 $9^{(-)}$ | 265.6 7 | 295.9 $7^{(+)}$ | 310.5 $11^{(-)}$ | 335.3 $5^{(+)}$ |
| 0.0 | $1^{(+)}$ | 16.9(2) h | | | | | | | | |
| 111.78(12) | $3^{(+)}$ | 350(20) ps | | 100 | | | | | | |
| 252.60(14) | $9^{(-)}$ | 56.9(9) s | | | 100 | | | | | |
| 265.59(16) | 7 | | | | | x | | | | |

(continued)

¹²⁵Xe
54

| E^* [keV] | $2J^\pi$ | $T_{1/2}$ or Γ_{cm} | Branching ratios in percentage | | | | | | | |
|----------------|-------------------------------------|--------------------------------------|--------------------------------|-------------------------|---------------------------|---------------------------|------------|---------------------------|----------------------------|---------------------------|
| | | | E_f^* : $2J_f^\pi$: | 0.0 1 ⁽⁺⁾ | 111.8 3 ⁽⁺⁾ | 252.7 9 ⁽⁻⁾ | 265.6 7 | 295.9 7 ⁽⁺⁾ | 310.5 11 ⁽⁻⁾ | 335.3 5 ⁽⁺⁾ |
| 295.86(15) | 7 ⁽⁺⁾ | 0.14(3) μs | | | 89(9) | 11(4) | | | | |
| 310.54(16) | 11 ⁽⁻⁾ | | | | | 100 | | | | |
| 335.35(12) | 5 ⁽⁺⁾ | | | 94(13) | 6(1) | | | | | |
| 471.11(12) | 3 | | | 65(9) | 24(1) | | | | | 11(3) |
| 483.70(12) | 7 ⁽⁺⁾ | 80(17) ps | | | 88(12) | | | 1 | | 11(4) |
| 496.98(13) | 5 ⁽⁺⁾ | | | 8(1) | 71(10) | | 9(1) | 5(1) | | 8(2) |
| 526.38(16) | 1 ⁽⁺⁾ , 3 ⁽⁺⁾ | | | 93(15) | 7(2) | | | | | |
| 540.09(14) | 3 ⁽⁺⁾ | | | 65(9) | 32(5) | | | | | 3(1) |
| 594.09(13) | 3 ⁽⁺⁾ -7 ⁽⁺⁾ | | | | 98(15) | | | | | 2(1) |
| 596.76(13) | 9 ⁽⁺⁾ | | | | | 5(1) | | 93(13) | 2(1) | |
| 607.79(14) | 7 | | | | | 78(12) | 8(2) | | 11(2) | 4(1) |
| 708.37(13) | 3 ⁽⁺⁾ , 5 ⁽⁺⁾ | | | 25(4) | 17(3) | | | 31(5) | | 20(3) |
| 711.18(14) | 3 ⁽⁺⁾ | | | 42(6) | 43(7) | | | | | 15(2) |
| 736.85(15) | 13 ⁽⁻⁾ | | | | | 22(4) | | | 78(12) | |
| 741.40(14) | 7 ⁽⁺⁾ | 8.7(9) ps | | | | 29(4) | 5(1) | 21(3) | | |
| 762.34(16) | 5 | | | | | 32(5) | 38(6) | | | |
| 765.70(15) | 3, 5 ⁽⁺⁾ | | | 25(4) | 10(2) | | 53(8) | | | 5(1) |
| 796.62(16) | 15 ⁽⁻⁾ | | | | | | | | 99(14) | |
| 837.33(14) | 9 ⁽⁺⁾ | | | | | | | | | 90(14) |
| 870.60(16) | 11 ⁽⁺⁾ | | | | | | | 93(13) | | |
| 886.98(18) | 9, 11 | | | | | 20(4) | | | 55(9) | |
| 889.30(15) | 7 | | | | 14(3) | | 12(2) | 12(2) | | 27(4) |
| 893.50(17) | 13 ⁽⁻⁾ | | | | | 52(7) | | | 48(7) | |
| 896.05(17) | 5 | | | | 100 | | | | | x |
| 919.84(17) | 11 | 7.8(8) ps | | | | 24(5) | 76(13) | | | |
| 932.75(15) | 3 ⁽⁺⁾ -7 ⁽⁺⁾ | | | | | | | | | <100> |
| 946.23(15) | 5 ⁽⁺⁾ , 7 ⁽⁺⁾ | | | | | | | | | 14(2) |
| 969.13(15) | 7 | | | | 5(1) | | | | | 36(6) |
| 987.54(17) | | | | | x | | | | | x |
| 1019.1(2) | 9 ⁽⁺⁾ | | | | | | | | 19(3) | 6(1) |
| 1024.4(2) | <11> | | | | | 78(12) | | | 15(3) | |
| 1030.2(2) | 11 | | | | | | | | | |
| 1063.9(3) | | | | | | | | | | |
| 1077.1(3) | | | | | | | | | | |
| 1103.78(17) | <9, 11> | 2.9(10) ps | | | | | | x | | |
| 1121.1(4) | | | | | | | | | | |
| 1126.35(19) | | | | | | | | | | x |
| 1137.6(4) | | | | | | | | | | |
| 1141.12(19) | 3 ⁽⁺⁾ -7 ⁽⁺⁾ | | | | | | | | | 39(7) |
| 1161.83(17) | 5 ⁽⁺⁾ | | | | x | | | | | |
| 1171.70(24) | | | | | | | | | | x |
| 1193.11(16) | 7 ⁽⁺⁾ , 9 ⁽⁺⁾ | | | | | x | x | | | |
| 1209.91(17) | 13 ⁽⁺⁾ | | | | | | | | | |
| 1217.17(19) | 5 ⁽⁺⁾ | | | | x | | | | | x |
| 1245.43(19) | <9 ⁻ -13 ⁻ > | | | | | 43(7) | | | 24(4) | |

(continued)

 $^{125}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | $T_{1/2}$ or Γ_{cm} | Branching ratios in percentage | | | | | | | |
|----------------|------------------------------|--------------------------------------|--------------------------------|------------------|--------------------|--------------------|------------|--------------------|---------------------|--------------------|
| | | | E^*_f : $2J^\pi_f$: | 0.0 $1^{(+)}$ | 111.8 $3^{(+)}$ | 252.7 $9^{(-)}$ | 265.6 7 | 295.9 $7^{(+)}$ | 310.5 $11^{(-)}$ | 335.3 $5^{(+)}$ |
| 1246.8(3) | | | | | | | | | | |
| 1247.69(18) | 11 | | | | | | | 48(8) | | |
| 1263.59(21) | | | | | | | | | | x |
| 1281.71(19) | | | | | | | | | | x |
| 1287.75(19) | | | | | | | | | | x |
| 1307.2(4) | | | | | | | | | | |
| 1310.13(18) | $15^{(-)}$ | | | | | | | | | |
| 1311.4(7) | 1,3 | | | 54 | 46 | | | | | |
| 1312.20(19) | 3,5,7 | | | | | | | | | |
| 1315.78(16) | $\langle 11^+ \rangle$ | | | | | | 28(5) | | | |
| 1321.07(19) | | | | | x | | | | | |
| 1324.9(7) | 1,3 | | | 21 | 79 | | | | | |
| 1327.0(3) | | | | | | | | | | |
| 1330.87(17) | $3^{(+)}-7^{(+)}$ | | | | x | | | | | x |
| 1341.21(21) | $\langle 9^- - 13^- \rangle$ | | | | | | 57(11) | | | |
| 1359.75(22) | 3,5,7 | | | | | | | | | x |
| 1370.26(17) | $5^{(+)}, 7^{(+)}$ | | | | | | | | | |
| 1379.94(16) | $7, 9^{(+)}$ | | | | | | | | | |
| 1387.90(18) | 17 | | | | | | | | | |
| 1395.59(20) | $11^{(-)}-15$ | | | | | | | | | |
| 1399.27(25) | | | | | | | | | | |
| 1403.84(19) | $5^{(+)}-9^{(+)}$ | | | | | | | | | x |
| 1416.09(19) | $5^{(+)}$ | | | | x | | | | | |
| 1425.3(4) | | | | | | | | | | |
| 1438.90(18) | $11^{(+)}$ | | | | | | | | | |
| 1441.18(18) | $19^{(-)}$ | <3 ps | | | | | | | | |
| 1473.8(4) | | | | | | | | | | |
| 1477.38(21) | | | | | | | | | | x |
| 1480.68(19) | $13^{(+)}$ | | | | | | | | 20(2) | |
| 1489.88(19) | $3^{(+)}, 5, 7$ | | | | | | | | | x |
| 1492.58(18) | | | | | | | | | | |
| 1494.7(4) | | | | | | | | | | |
| 1510.29(19) | | | | | | | | | | |
| 1536.20(19) | $15^{(+)}$ | 2.6(9) ps | | | | | | | | |
| 1537.94(24) | $7^{(+)}$ | | | | | | | | | x |
| 1573.38(19) | $\langle 13 \rangle$ | | | | | | | | | |
| 1578.58(25) | 5,7 | | | | | | | | | |
| 1579.4(7) | 1,3 | | | 52 | 48 | | | | | |
| 1579.87(20) | $17^{(-)}$ | | | | | | | | | |
| 1580.11(24) | | | | | | | | | | |
| 1585.50(18) | $\langle 15 \rangle$ | | | | | | | | | |
| 1600.07(22) | $\langle 11 \rangle$ | | | | | | | | | |
| 1601.86(25) | | | | | | | | | | |
| 1603.8(4) | | | | | | x | | | | |
| 1606.07(19) | $5^{(+)}-9^{(+)}$ | | | | | | | | | x |

(continued)

¹²⁵Xe
54

| E^* [keV] | $2J^\pi$ | $T_{1/2}$ or Γ_{cm} | Branching ratios in percentage | | | | | | | |
|----------------|-------------------------------------|--------------------------------------|--------------------------------|-------------------------|---------------------------|---------------------------|------------|---------------------------|----------------------------|---------------------------|
| | | | E_f^* : $2J_f^\pi$: | 0.0 1 ⁽⁺⁾ | 111.8 3 ⁽⁺⁾ | 252.7 9 ⁽⁻⁾ | 265.6 7 | 295.9 7 ⁽⁺⁾ | 310.5 11 ⁽⁻⁾ | 335.3 5 ⁽⁺⁾ |
| 1617.50(19) | | | | | | | | | | |
| 1624.95(19) | | | | | | | | | | |
| 1628.03(22) | 7 ⁽⁺⁾ | | | | | | | | | x |
| 1640.15(17) | 11–13 | | | | | | | | | |
| 1647.72(25) | | | | | | | | | | x |
| 1648.9(4) | | | | | | | | | | |
| 1659.68(19) | 15 | | | | | | | | | |
| 1668.67(24) | 3 ⁽⁺⁾ –7 ⁽⁺⁾ | | | | x | | | | | |
| 1678.87(18) | 7 ⁽⁺⁾ –11 ⁽⁺⁾ | | | | | | | | | |
| 1684.47(25) | | | | | | | | | | |
| 1687.90(22) | | | | | | | | | | |
| 1688.39(19) | | | | | | | | | | x |
| 1690.46(19) | 5 ⁽⁺⁾ , 7 ⁽⁺⁾ | | | | | | | | | |
| 1698.1(8) | 1,3 | | | 39 | x | | | | | |
| 1714.0(3) | | | | | | | | | | |
| 1716.57(23) | | | | | | | | | | |
| 1718.57(22) | 15 | | | | | | | | | |
| 1723.59(21) | | | | | | | | | | |
| 1739.6(3) | | | | | | | | | | |
| 1752.88(25) | 7,9,11 ⁽⁺⁾ | | | | | | | | | |
| 1759.94(20) | | | | | | | | | | |
| 1804.69(21) | | | | | | | | | | |
| 1808.7(4) | | | | | | | | | | |
| 1825.91(25) | | | | | | | | | | |
| 1826.25(22) | ⟨15⟩ | | | | | | | | | |
| 1832.84(25) | ⟨9 ⁻ –13 ⁺ ⟩ | | | | | | | | | |
| 1859.07(21) | 17 ⁽⁻⁾ | | | | | | | | | |
| 1864.98(25) | | | | | | | | | | |
| 1883.02(22) | ⟨15⟩ | | | | | | | | | |
| 1905.70(23) | | | | | | | | | | |
| 1925.31(22) | 17 ⁽⁺⁾ | <3 ps | | | | | | | | |
| 1934.5(4) | | | | | | | | | | |
| 1975.73(21) | ⟨15⟩ | | | | | | | | | |
| 2004.60(22) | ⟨15,17⟩ | | | | | | | | | |
| 2006.44(19) | 19 | | | | | | | | | |
| 2031.03(22) | ⟨9 ⁺ –13 ⁺ ⟩ | | | | | | | | | |
| 2035.7(3) | | | | | | | | | | |
| 2046.5(4) | 9 ⁽⁺⁾ | | | | | | | | | |
| 2062.8(3) | | | | | | | | | | |
| 2082.0(3) | | | | | | | | | | |
| 2095.0(3) | ⟨9 ⁺ –13 ⁺ ⟩ | | | | | | | | | |
| 2096.8(3) | | | | | | | | | | |
| 2144.5(4) | | | | | | | | | | |
| 2150.86(20) | 15 ⁽⁻⁾ | | | | | | | | | |
| 2154.9(7) | 1,3 | | | 75 | 25 | | | | | |

(continued)

 $^{125}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | $T_{1/2}$ or Γ_{cm} | Branching ratios in percentage | | | | | | | |
|----------------|-------------------------------------|--------------------------------------|--------------------------------|-------------------------|---------------------------|---------------------------|------------|---------------------------|----------------------------|---------------------------|
| | | | E^*_f : $2J^\pi_f$: | 0.0 1 ⁽⁺⁾ | 111.8 3 ⁽⁺⁾ | 252.7 9 ⁽⁻⁾ | 265.6 7 | 295.9 7 ⁽⁺⁾ | 310.5 11 ⁽⁻⁾ | 335.3 5 ⁽⁺⁾ |
| 2166.6(4) | | | | | | | | | | |
| 2166.70(21) | 21 | | | | | | | | | |
| 2174.7(3) | | | | | | | | | | |
| 2174.8(4) | | | | | | | | | | |
| 2193.9(4) | | | | | | | | | | |
| 2215.72(21) | 23 ⁽⁻⁾ | | | | | | | | | |
| 2226.6(3) | 13 | | | | | | | | | |
| 2227.0(4) | | | | | | | | | | |
| 2237.70(25) | 17 | | | | | | | | | |
| 2254.96(24) | | | | | | | | | | |
| 2272.23(21) | 19 ⁽⁺⁾ | <3 ps | | | | | | | | |
| 2301.5(4) | | | | | | | | | | |
| 2315.21(19) | | | | | | | | | | |
| 2317.7(4) | | | | | | | | | | |
| 2349.4(3) | | | | | | | | | | |
| 2384.3(4) | | | | | | | | | | x |
| 2384.74(22) | 21 ⁽⁻⁾ | | | | | | | | | |
| 2414.8(3) | | | | | | | | | | |
| 2423.86(20) | 19 ⁽⁺⁾ | | | | | | | | | |
| 2447.4 | | | | | | | | | | |
| 2464.7(3) | | | | | | | | | | |
| 2485.08(22) | ⟨15 ⁻ –19 ⁻ ⟩ | | | | | | | | | |
| 2508.3(3) | 15 ⁽⁻⁾ –19 | | | | | | | | | |
| 2508.7(4) | | | | | | | | | | |
| 2524.4(7) | 1,3 | | | 72 | 28 | | | | | |
| 2543.9(7) | 1,3 | | | 29 | 71 | | | | | |
| 2550.75(21) | 19 | | | | | | | | | |
| 2572.1(4) | | | | | | | | | | |
| 2604.3(4) | | | | | | | | | | |
| 2616.7(3) | ⟨15,17⟩ | | | | | | | | | |
| 2652.69(22) | 19 | | | | | | | | | |
| 2664.1 | | | | | | | | | | |
| 2671.3(3) | | | | | | | | | | |
| 2704.14(24) | 21 ⁽⁺⁾ | | | | | | | | | |
| 2811.46(24) | ⟨23⟩ | | | | | | | | | |
| 2819.25(19) | ⟨19,21⟩ | | | | | | | | | |
| 2852.7(4) | | | | | | | | | | |
| 2890.51(22) | | | | | | | | | | |
| 2926.6(3) | | | | | | | | | | |
| 2952.57(23) | ⟨19⟩ | | | | | | | | | |
| 2970.0(3) | ⟨21⟩ | | | | | | | | | |
| 3000.1(3) | | | | | | | | | | |
| 3055.2(3) | 25 | | | | | | | | | |
| 3075.10(19) | ⟨19,21⟩ | | | | | | | | | |
| 3099.9(3) | 27 | | | | | | | | | |

(continued)

¹²⁵Xe
54

| E^* [keV] | $2J^\pi$ | $T_{1/2}$ or Γ_{cm} | Branching ratios in percentage | | | | | | | |
|----------------|--------------------------|--------------------------------------|--------------------------------|-------------------------|---------------------------|---------------------------|------------|---------------------------|----------------------------|---------------------------|
| | | | E_f^* : $2J_f^\pi$: | 0.0 1 ⁽⁺⁾ | 111.8 3 ⁽⁺⁾ | 252.7 9 ⁽⁻⁾ | 265.6 7 | 295.9 7 ⁽⁺⁾ | 310.5 11 ⁽⁻⁾ | 335.3 5 ⁽⁺⁾ |
| 3131.2(3) | | | | | | | | | | |
| 3151.12(25) | | | | | | | | | | |
| 3210.8(3) | $\langle 21 \rangle$ | | | | | | | | | |
| 3272.0(4) | | | | | | | | | | |
| 3277.89(20) | $\langle 21, 23 \rangle$ | | | | | | | | | |
| 3322.84(25) | $\langle 21, 23 \rangle$ | | | | | | | | | |
| 3379.5(3) | | | | | | | | | | |
| 3486.3(3) | $\langle 27 \rangle$ | | | | | | | | | |
| 3487.1(4) | | | | | | | | | | |
| 3519.4(3) | | | | | | | | | | |
| 3523.8(4) | | | | | | | | | | |
| 3562.7(4) | | | | | | | | | | |
| 3619.0(3) | $\langle 27 \rangle$ | | | | | | | | | |
| 3650.0(4) | | | | | | | | | | |
| 3752.8(4) | | | | | | | | | | |
| 3898.7(5) | | | | | | | | | | |
| 3959.7(4) | | | | | | | | | | |
| 4052.8(4) | | | | | | | | | | |
| 4064.8(4) | | | | | | | | | | |
| 4070.9(4) | $\langle 31^- \rangle$ | | | | | | | | | |
| 4134.7(3) | | | | | | | | | | |
| 4211.1 | | | | | | | | | | |
| 4268.2(5) | | | | | | | | | | |
| 4292.6(4) | | | | | | | | | | |
| 4383.3(4) | $\langle 29 \rangle$ | | | | | | | | | |
| 4573.5(5) | | | | | | | | | | |
| 4762.8(4) | | | | | | | | | | |
| 4912.0(5) | | | | | | | | | | |
| 5067.5(5) | | | | | | | | | | |
| 5121.8 | | | | | | | | | | |
| 5137.9(6) | | | | | | | | | | |
| 5162.4(4) | | | | | | | | | | |
| 5200.2(5) | | | | | | | | | | |
| 5319.8(5) | | | | | | | | | | |
| 5826.7(6) | | | | | | | | | | |
| 6097.5(6) | | | | | | | | | | |
| 6113.5(6) | | | | | | | | | | |
| 6251.5(5) | | | | | | | | | | |
| 6344.0 | | | | | | | | | | |
| 6752.8(6) | | | | | | | | | | |
| 6814.7(12) | | | | | | | | | | |
| 7177.5(12) | | | | | | | | | | |
| 7216.4(7) | | | | | | | | | | |
| 7286.9(6) | | | | | | | | | | |
| 7335.5(12) | | | | | | | | | | |

(continued)

¹²⁵Xe
54

| E^* [keV] | $2J^\pi$ | $T_{1/2}$ or Γ_{cm} | Branching ratios in percentage | | | | | | | |
|----------------|----------|--------------------------------------|--------------------------------|-------------------------|---------------------------|---------------------------|------------|---------------------------|----------------------------|---------------------------|
| | | | E_f^* : $2J_f^\pi$: | 0.0 1 ⁽⁺⁾ | 111.8 3 ⁽⁺⁾ | 252.7 9 ⁽⁻⁾ | 265.6 7 | 295.9 7 ⁽⁺⁾ | 310.5 11 ⁽⁻⁾ | 335.3 5 ⁽⁺⁾ |
| 7768.7(9) | | | | | | | | | | |
| 8265.2(7) | | | | | | | | | | |
| 8331.5(16) | | | | | | | | | | |
| 8497.4(12) | | | | | | | | | | |
| 8704.5(10) | | | | | | | | | | |

Additional data on this isotope can be found in [93Ya06, 93Wi19].

Energy levels and branching ratios [99Ka26]. Part 2

¹²⁵Xe
54

| E^* | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|-------------|------------------------------------|--------------------------------|------------|---------------------------|---------------------------|-------|---------------------------|-------|---------------------------|----------|--------|---------------------------|
| [keV] | | $E_f^*:$ $2J_f^\pi:$ | 471.1 3 | 483.7 7 ⁽⁺⁾ | 497.0 5 ⁽⁺⁾ | 526.4 | 540.1 3 ⁽⁺⁾ | 594.1 | 596.8 9 ⁽⁺⁾ | 608 7 | 708 | 711.2 3 ⁽⁺⁾ |
| 708.37(13) | 3 ⁽⁺⁾ ,5 ⁽⁺⁾ | | 4(1) | | 4(1) | | 1 | | | | | |
| 711.18(14) | 3 ⁽⁺⁾ | | 1 | | | | | | | | | |
| 741.40(14) | 7 ⁽⁺⁾ | | | 4(1) | 37(6) | | | 2(1) | 1 | | | |
| 762.34(16) | ⟨5⟩ | 3(1) | x | | | | | | | 27(8) | | |
| 765.70(15) | 3,5 ⁽⁺⁾ | 4(1) | | | x | | 4(1) | | | | | |
| 837.33(14) | 9 ⁽⁺⁾ | | | 8(2) | | | | | 2(1) | x | | |
| 870.60(16) | 11 ⁽⁺⁾ | | | 2(1) | | | | | 6(1) | | | |
| 886.98(18) | 9,11 | | | | | | | | | 25(5) | | |
| 889.30(15) | 7 | x | 34(5) | x | | | | x | x | | | |
| 896.05(17) | 5 | x | x | x | | x | | | | | | |
| 932.75(15) | 3 ⁽⁺⁾ –7 ⁽⁺⁾ | x | x | x | | x | | | | | | |
| 946.23(15) | 5 ⁽⁺⁾ ,7 ⁽⁺⁾ | 3(1) | 6(1) | 13(2) | | 17(3) | 17(3) | 15(3) | | 7(1) | 2(1) | |
| 969.13(15) | 7 | 31(5) | 12(2) | | | 5(1) | 9(1) | | | | | |
| 987.54(17) | | | | x | | x | x | | | | | |
| 1019.1(2) | 9 ⁽⁺⁾ | | | 5(1) | 27(4) | | | | 8(1) | | | |
| 1024.4(2) | ⟨11⟩ | | | | | | | | | 7(2) | | |
| 1030.2(2) | 11 | | | 95(13) | | | | | 2(1) | | | |
| 1063.9(3) | | | | | | | | | x | x | | |
| 1077.1(3) | | | | | | | | | | x | | |
| 1103.78(17) | ⟨9,11⟩ | | | 63(9) | | | 37(6) | | | | | |
| 1121.1(4) | | | | | | | | | x | | | |
| 1126.35(19) | | x | | | | x | | | | | x | |
| 1141.12(19) | 3 ⁽⁺⁾ –7 ⁽⁺⁾ | | | 61(9) | | | | | | | | x |
| 1161.83(17) | 5 ⁽⁺⁾ | x | | | | x | | | | | | x |
| 1171.70(24) | | x | | | x | | | | | | | |
| 1193.11(16) | 7 ⁽⁺⁾ ,9 ⁽⁺⁾ | | | 19(4) | | | | | x | 3(1) | 64(10) | |
| 1209.91(17) | 13 ⁽⁺⁾ | | | | | | | | 94(13) | | | |
| 1217.17(19) | 5 ⁽⁺⁾ | x | | | | | | x | | | | |
| 1247.69(18) | 11 | | | | | | | | 38(6) | | | |
| 1263.59(21) | | x | | | | | | | | | | |

(continued)

¹²⁵Xe
54

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|-------------------------------------|--------------------------------|------------|---------------------------|---------------------------|-------|---------------------------|-------|---------------------------|----------|-----|---------------------------|
| | | $E_f^*:$ $2J_f^\pi:$ | 471.1 3 | 483.7 7 ⁽⁺⁾ | 497.0 5 ⁽⁺⁾ | 526.4 | 540.1 3 ⁽⁺⁾ | 594.1 | 596.8 9 ⁽⁺⁾ | 608 7 | 708 | 711.2 3 ⁽⁺⁾ |
| 1281.71(19) | | | | | | | | | | x | | |
| 1287.75(19) | | | x | | x | x | | | | | | |
| 1307.2(4) | | | | | | | | | | | x | |
| 1312.20(19) | 3,5,7 | | x | | x | | | | | x | | |
| 1315.78(16) | ⟨11 ⁺ ⟩ | | | | | | | | 23(4) | | | |
| 1321.07(19) | | | x | | | x | | | | | | x |
| 1327.0(3) | | | | x | | | | | | | | |
| 1330.87(17) | 3 ⁽⁺⁾ –7 ⁽⁺⁾ | | x | x | | | | | | | | x |
| 1359.75(22) | 3,5,7 | | | | | | | | | x | | |
| 1370.26(17) | 5 ⁽⁺⁾ , 7 ⁽⁺⁾ | | | x | | | x | x | x | | | |
| 1379.94(16) | 7,9 ⁽⁺⁾ | | | x | x | | | x | x | | | |
| 1399.27(25) | | | | x | | | | | | | | |
| 1403.84(19) | 5 ⁽⁺⁾ –9 ⁽⁺⁾ | | | x | | | | x | | | | |
| 1416.09(19) | 5 ⁽⁺⁾ | | x | | | | | | | x | | |
| 1425.3(4) | | | | | | | | | | x | | |
| 1438.90(18) | 11 ⁽⁺⁾ | | | | | | | | x | | | |
| 1477.38(21) | | | | x | | | | | | | | |
| 1489.88(19) | 3 ⁽⁺⁾ , 5,7 | | x | x | | | | x | | | | |
| 1492.58(18) | | | | | | | | | x | | | |
| 1494.7(4) | | | | | x | | | | | | | |
| 1510.29(19) | | | | x | | | | x | x | | | |
| 1578.58(25) | 5,7 | | | | | | | x | | | x | |
| 1580.11(24) | | | x | | | | x | | | | | |
| 1606.07(19) | 5 ⁽⁺⁾ –9 ⁽⁺⁾ | | | x | | | | | x | | | |
| 1617.50(19) | | | x | | | | | x | | | | |
| 1624.95(19) | | | | x | | | | | | | x | |
| 1628.03(22) | 7 ⁽⁺⁾ | | | | x | | | | | | | |
| 1640.15(17) | 11–13 | | | | | | | | x | | | |
| 1647.72(25) | | | | | | x | | | | | | |
| 1648.9(4) | | | | | x | | | | | | | |
| 1668.67(24) | 3 ⁽⁺⁾ –7 ⁽⁺⁾ | | | x | | | | | | | | |
| 1678.87(18) | 7 ⁽⁺⁾ –11 ⁽⁺⁾ | | | x | | | | | x | | | |
| 1684.47(25) | | | | | | | | | | x | | |
| 1688.39(19) | | | | | | | | | | x | | |
| 1690.46(19) | 5 ⁽⁺⁾ , 7 ⁽⁺⁾ | | | | | | | x | x | | x | x |
| 1698.1(8) | 1,3 | | | | | | 61 | | | | | |
| 1723.59(21) | | | | x | | | | | | x | | |
| 1752.88(25) | 7,9,11 ⁽⁺⁾ | | | x | | | | | | | | |
| 1759.94(20) | | | | x | | | | | | x | | |
| 1804.69(21) | | | | x | | | | x | | x | | |
| 1832.84(25) | ⟨9 [–] –13 ⁺ ⟩ | | | | | | | | x | | | |
| 1864.98(25) | | | | | | | x | | | | | |
| 2031.03(22) | ⟨9 ⁺ –13 ⁺ ⟩ | | | | | | | | x | | | |
| 2046.5(4) | 9 ⁽⁺⁾ | | | x | | | | | | | | |
| 2144.5(4) | | | | | | | | | x | | | |

Energy levels and branching ratios [99Ka26]. Part 3

¹²⁵Xe
54

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------------------|---------------------------|---------------------------|-----------------------------|----------------------------|---------------------------|----------------------------|---------------|------------|----------------------------|
| | | $E_f^*:$ $2J_f^\pi:$ | 736.8 13 ⁽⁻⁾ | 741.4 7 ⁽⁺⁾ | 762.3 5 ⁽⁻⁾ | 765.7 3,5 ⁽⁺⁾ | 796.6 15 ⁽⁻⁾ | 837.3 9 ⁽⁺⁾ | 870.6 11 ⁽⁺⁾ | 887.0 9,11 | 889.3 7 | 893.5 13 ⁽⁻⁾ |
| 796.62(16) | 15 ⁽⁻⁾ | | 0.8(2) | | | | | | | | | |
| 946.23(15) | 5 ⁽⁺⁾ , 7 ⁽⁺⁾ | | | 6(1) | | | | | | | | |
| 969.13(15) | 7 | | | | | | | 1(1) | | | | |
| 1019.1(2) | 9 ⁽⁺⁾ | | | 35(5) | | | | | | | | |
| 1024.4(2) | 11 ⁽⁻⁾ | x | | | | | | | | | | |
| 1030.2(2) | 11 | | | | | | | 3(1) | | | | |
| 1077.1(3) | | | | | x | | | | | | | |
| 1103.78(17) | 9,11 ⁽⁻⁾ | | | x | | | | x | | | | |
| 1137.6(4) | | | | | | | x | | | | | |
| 1161.83(17) | 5 ⁽⁺⁾ | | | | | | | | | | x | |
| 1193.11(16) | 7 ⁽⁺⁾ , 9 ⁽⁺⁾ | | | | | | | 15(3) | | | x | |
| 1209.91(17) | 13 ⁽⁺⁾ | | | | | | | | 6(2) | | | |
| 1245.43(19) | 9 ⁽⁻⁾ –13 ⁽⁻⁾ | | 26(5) | | | | | | | 7(2) | | x |
| 1246.8(3) | | x | | | | | | | | | | |
| 1247.69(18) | 11 | | | | | | | | 14(3) | | | |
| 1263.59(21) | | | | x | | | | | | | | |
| 1281.71(19) | | | | | x | x | | | | | | |
| 1310.13(18) | 15 ⁽⁻⁾ | | 66(10) | | | | 15(3) | | | | | 19(3) |
| 1312.20(19) | 3,5,7 | | | | x | | | | | | | |
| 1315.78(16) | 11 ⁽⁺⁾ | x | | 19(4) | | | | x | 4(1) | | | |
| 1341.21(21) | 9 ⁽⁻⁾ –13 ⁽⁻⁾ | | 43(8) | | | | | | | | | |
| 1359.75(22) | 3,5,7 | | | | x | x | | | | | | |
| 1370.26(17) | 5 ⁽⁺⁾ , 7 ⁽⁺⁾ | | | x | | | | x | | | | |
| 1379.94(16) | 7,9 ⁽⁺⁾ | | | | | | | x | | | | |
| 1387.90(18) | 17 | | 52(8) | | | | 48(8) | | | | | |
| 1395.59(20) | 11 ⁽⁻⁾ –15 | x | | | | | 70(7) | | | | | x |
| 1403.84(19) | 5 ⁽⁺⁾ –9 ⁽⁺⁾ | | | | | | | x | | | | |
| 1416.09(19) | 5 ⁽⁺⁾ | | | x | | | | | | | | |
| 1438.90(18) | 11 ⁽⁺⁾ | | | | | | | 26(5) | | | 57(10) | |
| 1441.18(18) | 19 ⁽⁻⁾ | | | | | | 100 | | | | | |
| 1473.8(4) | | | | | | | | | | x | | x |
| 1477.38(21) | | | | x | | | | | | | | |
| 1480.68(19) | 13 ⁽⁺⁾ | | | | | | 12(1) | 65(6) | | | | |
| 1492.58(18) | | | | | | | | x | | | | |
| 1510.29(19) | | | | | | | | x | | | | |
| 1536.20(19) | 15 ⁽⁺⁾ | | | | | | | | 96(10) | | | |
| 1537.94(24) | 7 ⁽⁺⁾ | | | | | | | x | | | | |
| 1573.38(19) | 13 ⁽⁻⁾ | x | | | | | | | | 47(5) | | |
| 1579.87(20) | 17 ⁽⁻⁾ | | | | | | 20(2) | | | | | 76(8) |
| 1585.50(18) | 15 ⁽⁻⁾ | | 41(9) | | | | x | | | | | 25(5) |
| 1600.07(22) | 11 ⁽⁻⁾ | | | | | | | x | | | | |
| 1601.86(25) | | | | | x | x | | | | | | |
| 1617.50(19) | | | | | x | x | | | | | | |
| 1624.95(19) | | | | x | | | | | | | x | |
| 1640.15(17) | 11–13 | | | | | | x | | x | | | x |

(continued)

 $^{125}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|--------------------------------------|--------------------------------|----------------------------|---------------------------|------------|-----------------------------|----------------------------|---------------------------|----------------------------|---------------|------------|----------------------------|
| | | $E^*_f:$ $2J^\pi_f:$ | 736.8 13 ⁽⁻⁾ | 741.4 7 ⁽⁺⁾ | 762.3 5 | 765.7 3,5 ⁽⁺⁾ | 796.6 15 ⁽⁻⁾ | 837.3 9 ⁽⁺⁾ | 870.6 11 ⁽⁺⁾ | 887.0 9,11 | 889.3 7 | 893.5 13 ⁽⁻⁾ |
| 1659.68(19) | 15 | | 20(2) | | | | 4(4) | | | | | 19(2) |
| 1678.87(18) | 7 ⁽⁺⁾ –11 ⁽⁺⁾ | | | | | | | x | | | | |
| 1684.47(25) | | | | | x | | | | | | | |
| 1687.90(22) | | | | | | | | | x | | | |
| 1688.39(19) | | | | | x | x | | | | | | |
| 1714.0(3) | | | | | | | | | | x | | |
| 1716.57(23) | | x | | | | | | | | | | x |
| 1723.59(21) | | | | | x | | | | | | | |
| 1759.94(20) | | | | | | | | x | | x | | |
| 1825.91(25) | | | | x | | | | | | | x | |
| 1826.25(22) | 15 | | 56(6) | | | | 23(3) | | | | | |
| 1832.84(25) | 9 ⁽⁻⁾ –13 ⁽⁺⁾ | | x | | | | | | | | | |
| 1859.07(21) | 17 ⁽⁻⁾ | | | | | | | | | | | 15(2) |
| 1883.02(22) | 15 | | 25(3) | | | | | | | | | |
| 1905.70(23) | | | 26(4) | | | | | | | | | x |
| 1934.5(4) | | | | | x | | | | | | | |
| 1975.73(21) | 15 | x | | | | | | | | | | |
| 2004.60(22) | 15,17 | | | | | | 7(1) | | | | | |
| 2006.44(19) | 19 | | | | | | x | | | | | |
| 2035.7(3) | | x | | | | | | | | | | x |
| 2062.8(3) | | x | | | | | | | | | | |
| 2082.0(3) | | x | | | | | | | | | | |
| 2095.0(3) | 9 ⁽⁺⁾ –13 ⁽⁺⁾ | | | | | | | x | | | | |
| 2096.8(3) | | x | | | | | | | | | | |
| 2150.86(20) | 15 ⁽⁻⁾ | x | | | | | x | | | | | x |
| 2174.8(4) | | x | | | | | | | | | | |
| 2226.6(3) | 13 | x | | | | | | | | | | |
| 2237.70(25) | 17 | | | | | | 31(4) | | | | | |
| 2301.5(4) | | | | | | | | | | | | x |
| 2315.21(19) | | x | | | | | 100 | | | | | |
| 2414.8(3) | | | | | | | x | | | | | |
| 2485.08(22) | 15 ⁽⁻⁾ –19 ⁽⁻⁾ | | | | | | x | | | | | |
| 2604.3(4) | | | | | | | x | | | | | |

Energy levels and branching ratios [99Ka26]. Part 4

 $^{125}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|--------------------|--------------------------------|------------|-------------|-------|-------|------------|----------------------------|--------------|--------------|----------------|--------|
| | | $E^*_f:$ $2J^\pi_f:$ | 896.0 5 | 919.8 11 | 932.7 | 946.2 | 969.1 7 | 1019.0 9 ⁽⁺⁾ | 1024.4 11 | 1030.2 11 | 1103.8 9,11 | 1141.1 |
| 1161.83(17) | 5 ⁽⁺⁾ | | | | x | | | | | | | |
| 1315.78(16) | 11 ⁽⁺⁾ | | | | | | 26(4) | | | | | |
| 1379.94(16) | 7,9 ⁽⁺⁾ | | | | x | | | | | x | | |

(continued)

 $^{125}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|-------------------------------------|--------------------------------|------------|-------------|-------|-------|------------|----------------------------|----------------|--------------|------------------|--------|
| | | E_f^* : $2J_f^\pi$: | 896.0 5 | 919.8 11 | 932.7 | 946.2 | 969.1 7 | 1019.0 9 ⁽⁺⁾ | 1024.4 ⟨11⟩ | 1030.2 11 | 1103.8 ⟨9,11⟩ | 1141.1 |
| 1395.59(20) | 11 ⁽⁻⁾ -15 | | | 9(1) | | | | | 20(2) | | | |
| 1399.27(25) | | | | | | | x | | | | | |
| 1438.90(18) | 11 ⁽⁺⁾ | | | | | | | | | 17(3) | | |
| 1480.68(19) | 13 ⁽⁺⁾ | | | | | | | | | 4(1) | | |
| 1492.58(18) | | | | | | x | | x | | | x | |
| 1536.20(19) | 15 ⁽⁺⁾ | | | | | | | | | 2(1) | | |
| 1573.38(19) | ⟨13⟩ | | | 27(9) | | | | | | | | |
| 1585.50(18) | ⟨15⟩ | | | 21(4) | | | | | 13(3) | | | |
| 1600.07(22) | ⟨11⟩ | | | | | | 100 | | | x | | |
| 1606.07(19) | 5 ⁽⁺⁾ -9 ⁽⁺⁾ | | | | x | | | | | | | |
| 1640.15(17) | 11-13 | | | | | | | x | | | | |
| 1659.68(19) | 15 | | | 40(4) | | | | | 17(2) | | | |
| 1678.87(18) | 7 ⁽⁺⁾ -11 ⁽⁺⁾ | | | | | | | | | x | | x |
| 1687.90(22) | | | | | | | | x | | | | |
| 1714.0(3) | | | | x | | | | | | | | |
| 1716.57(23) | | | | x | | | | | | | | |
| 1718.57(22) | 15 | | | | | | | | | 100 | | |
| 1739.6(3) | | | | | | | | | | 53(11) | 47(5) | |
| 1752.88(25) | 7,9,11 ⁽⁺⁾ | | | | | | | | | x | | |
| 1864.98(25) | | | x | | | | | | | | | |
| 1905.70(23) | | | | 74(9) | | | | | | | | |
| 2062.8(3) | | | | | | | | | | x | | |
| 2166.6(4) | | | | x | | | | | | | | |
| 2193.9(4) | | | | | | | | | | x | | |
| 2226.6(3) | 13 | | | | | | | | | x | | |

Energy levels and branching ratios [99Ka26]. Part 5

 $^{125}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|-------------------|--------------------------------|--------|-----------------------------|--------|--------|--------------|-----------------------------|------------------------------|--------|--------|--------------|
| | | E_f^* : $2J_f^\pi$: | 1193.1 | 1209.9 13 ⁽⁺⁾ | 1245.4 | 1246.8 | 1247.7 11 | 1310.1 15 ⁽⁻⁾ | 1315.8 ⟨11 ⁺ ⟩ | 1327.0 | 1341.2 | 1387.9 17 |
| 1438.90(18) | 11 ⁽⁺⁾ | | | x | | | | | | | | |
| 1536.20(19) | 15 ⁽⁺⁾ | | | 2(1) | | | | | | | | |
| 1573.38(19) | ⟨13⟩ | | | | 11(1) | | | 9(1) | | | 5(1) | |
| 1579.87(20) | 17 ⁽⁻⁾ | | | | | | | 4(1) | | | | |
| 1628.03(22) | 7 ⁽⁺⁾ | | | | | | | | | x | | |
| 1640.15(17) | 11-13 | | | x | | | x | | x | | | |
| 1687.90(22) | | | | | | | | | x | | | |
| 1688.39(19) | | | | | | | x | | | | | |
| 1808.7(4) | | | x | | | | | | | | | |
| 1826.25(22) | ⟨15⟩ | | | | | | | | | | | 20(2) |
| 1859.07(21) | 17 ⁽⁻⁾ | | | | | | | 79(8) | | | | |

(continued)

¹²⁵Xe
54

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|-------------------------------------|--------------------------------|--------|-----------------------------|--------|--------|--------------|-----------------------------|------------------------------|--------|--------|--------------|
| | | E_f^* : $2J_f^\pi$: | 1193.1 | 1209.9 13 ⁽⁺⁾ | 1245.4 | 1246.8 | 1247.7 11 | 1310.1 15 ⁽⁻⁾ | 1315.8 (11 ⁺) | 1327.0 | 1341.2 | 1387.9 17 |
| 1883.02(22) | (15) | | | | | | | | | | 28(3) | 36(4) |
| 1925.31(22) | 17 ⁽⁺⁾ | | | 100 | | | | | | | | |
| 1975.73(21) | (15) | | | 7(1) | | 37(4) | 37(4) | | 18(3) | | | |
| 2006.44(19) | 19 | | | | | | | 57(6) | | | | 34(3) |
| 2031.03(22) | (9 ⁺ –13 ⁺) | | | x | | | | | x | | | |
| 2082.0(3) | | | | | | | x | | | | | |
| 2095.0(3) | (9 ⁺ –13 ⁺) | | | x | | | | | | | | |
| 2150.86(20) | 15 ⁽⁻⁾ | | | | | | | x | | | | |
| 2166.70(21) | 21 | | | | | | | | | | | 61(6) |
| 2254.96(24) | | | | | | | | | | | | x |
| 2315.21(19) | | | | | | | | <30 | | | | |
| 2423.86(20) | 19 ⁽⁺⁾ | | | | | | | | | | | 36(15) |
| 2464.7(3) | | | | | | | | | | | | x |
| 2485.08(22) | (15 ⁻ –19 ⁻) | | | | | | | | | | | x |
| 2508.7(4) | | | | | | | | | | | | x |
| 2550.75(21) | 19 | | | | | | | | | | | 37(16) |
| 2652.69(22) | 19 | | | | | | | | | | | 42(17) |

Energy levels and branching ratios [99Ka26]. Part 6

¹²⁵Xe
54

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|-------------------|--------------------------------|--------|-----------------------------|-----------------------------|-----------------------------|----------------|-----------------------------|--------|----------------|----------------|--------------|
| | | E_f^* : $2J_f^\pi$: | 1395.6 | 1441.2 19 ⁽⁻⁾ | 1480.7 13 ⁽⁺⁾ | 1536.2 15 ⁽⁺⁾ | 1573.4 (13) | 1579.9 17 ⁽⁻⁾ | 1580.1 | 1585.5 (15) | 1600.1 (11) | 1659.7 15 |
| 1859.07(21) | 17 ⁽⁻⁾ | | | | | | | 6(1) | | | | |
| 1883.02(22) | (15) | | | | | | 10(1) | | | | | |
| 1975.73(21) | (15) | | | | x | | | | | | | |
| 2004.60(22) | (15,17) | | 37(4) | 43(5) | | | | | | 12(2) | | |
| 2006.44(19) | 19 | | | 10(1) | | | | | x | | | |
| 2150.86(20) | 15 ⁽⁻⁾ | | | | | x | | | | | | |
| 2166.70(21) | 21 | | | 39(4) | | | | | | | | |
| 2174.7(3) | | | | | | x | | | | | | |
| 2215.72(21) | 23 ⁽⁻⁾ | | | 100 | | | | | | | | |
| 2227.0(4) | | | | x | | | | | | | | |
| 2237.70(25) | 17 | | | | 69(8) | | | | | | | |
| 2254.96(24) | | | | | | | | x | | x | | |
| 2272.23(21) | 19 ⁽⁺⁾ | | | | | 100 | | | | | | |
| 2315.21(19) | | | | | | x | | | | | | |
| 2317.7(4) | | | | | | | | | | | x | |
| 2349.4(3) | | | | | | | | | | x | | |
| 2384.74(22) | 21 ⁽⁻⁾ | | | 12(2) | | | | 82(8) | | | | |
| 2423.86(20) | 19 ⁽⁺⁾ | | | x | | 23(5) | | | | | | |
| 2464.7(3) | | | | | | | | | | | | x |

(continued)

 $^{125}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|-------------------------------|--------------------------------|--------|------------|------------|------------|----------------------|------------|--------|----------------------|----------------------|--------|
| | | E^*_f : $2J^\pi_f$: | 1395.6 | 1441.2 | 1480.7 | 1536.2 | 1573.4 | 1579.9 | 1580.1 | 1585.5 | 1600.1 | 1659.7 |
| | | | | $19^{(-)}$ | $13^{(+)}$ | $15^{(+)}$ | $\langle 13 \rangle$ | $17^{(-)}$ | | $\langle 15 \rangle$ | $\langle 11 \rangle$ | 15 |
| 2485.08(22) | $\langle 15^- - 19^- \rangle$ | | | x | | | | | | | | |
| 2508.3(3) | $15^{(-)} - 19$ | | | x | | | | | | | | x |
| 2572.1(4) | | | | x | | | | | | | | |
| 2819.25(19) | $\langle 19, 21 \rangle$ | | | 62(12) | | | | | | | | |
| 2926.6(3) | | | | 100 | | | | | | | | |
| 2970.0(3) | $\langle 21 \rangle$ | | | <30 | | | | | | | | |
| 3075.10(19) | $\langle 19, 21 \rangle$ | | | <2 | | | | | | | | |

Energy levels and branching ratios [99Ka26]. Part 7

 $^{125}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|-------------------------------|--------------------------------|--------|--------|----------------------|------------|----------------------|------------|----------------------|--------------------------|--------|--------|
| | | E^*_f : $2J^\pi_f$: | 1718.6 | 1739.6 | 1826.2 | 1859.1 | 1883.0 | 1925.3 | 1975.7 | 2004.6 | 2006.4 | 2096.8 |
| | | | 15 | | $\langle 15 \rangle$ | $17^{(-)}$ | $\langle 15 \rangle$ | $17^{(+)}$ | $\langle 15 \rangle$ | $\langle 15, 17 \rangle$ | 19 | |
| 2174.7(3) | | | | | | | x | | | | | |
| 2315.21(19) | | | | | | | | | | | | x |
| 2349.4(3) | | | | | | x | | | | | | |
| 2384.74(22) | $21^{(-)}$ | | | | | | | | | | 6(1) | |
| 2414.8(3) | | | | | | x | | | | | | |
| 2423.86(20) | $19^{(+)}$ | | 41(12) | | | | | | | | | |
| 2447.4 | | | | x | | | | | | | | |
| 2485.08(22) | $\langle 15^- - 19^- \rangle$ | | | | x | | | | | | | |
| 2550.75(21) | 19 | | 55(16) | | | | | 8(3) | | | | |
| 2616.7(3) | $\langle 15, 17 \rangle$ | | 100 | | | | | | | | | |
| 2652.69(22) | 19 | | | | | 58(17) | | | | | x | |
| 2664.1 | | | | | | | | | x | | | |
| 2671.3(3) | | | 58(7) | | | | | | | | | |
| 2704.14(24) | $21^{(+)}$ | | | | | | | 100 | | | | |
| 2811.46(24) | $\langle 23 \rangle$ | | | | | | | | | | 65(20) | |
| 2819.25(19) | $\langle 19, 21 \rangle$ | | | | | | | 5(2) | | | 8(2) | |
| 2852.7(4) | | | | | | | | | | x | | |

Energy levels and branching ratios [99Ka26]. Part 8

 $^{125}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|--------------------------|--------------------------------|--------|--------|------------|--------|------------|--------|------------|------------|--------|--------------------------|
| | | E^*_f : $2J^\pi_f$: | 2166.6 | 2166.7 | 2215.7 | 2237.7 | 2272.2 | 2315.2 | 2384.7 | 2423.9 | 2550.7 | 2616.7 |
| | | | | 21 | $23^{(-)}$ | 17 | $19^{(+)}$ | | $21^{(-)}$ | $19^{(+)}$ | 19 | $\langle 15, 17 \rangle$ |
| 2671.3(3) | | | | | | | | 42(5) | | | | |
| 2811.46(24) | $\langle 23 \rangle$ | | | | 35(14) | | | | | | | |
| 2819.25(19) | $\langle 19, 21 \rangle$ | | | | | | | 8(2) | | | 9(3) | 8(2) |

(continued)

¹²⁵Xe
54

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|--------------------------|--------------------------------|--------------|--------------|-----------------------------|--------------|-----------------------------|--------|-----------------------------|-----------------------------|--------------|-------------------|
| | | E_f^* : $2J_f^\pi$: | 2166.6 21 | 2166.7 21 | 2215.7 23 ⁽⁻⁾ | 2237.7 17 | 2272.2 19 ⁽⁺⁾ | 2315.2 | 2384.7 21 ⁽⁻⁾ | 2423.9 19 ⁽⁺⁾ | 2550.7 19 | 2616.7 (15,17) |
| 2890.51(22) | | | | 30(9) | 12(4) | | 48(10) | | | 10(4) | | |
| 2952.57(23) | $\langle 19 \rangle$ | | | 41(12) | | | 28(12) | | | 31(13) | | |
| 2970.0(3) | $\langle 21 \rangle$ | | | | | 100 | | | | | | |
| 3000.1(3) | | | | | 100 | | | | | | | |
| 3055.2(3) | 25 | | | 55(16) | 45(19) | | | | | | | |
| 3075.10(19) | $\langle 19, 21 \rangle$ | | 21(6) | | 9(3) | | 14(5) | | 6(3) | | 18(6) | |
| 3099.9(3) | 27 | | | | 100 | | | | | | | |
| 3131.2(3) | | | | | | | 100 | | | | | |
| 3151.12(25) | | | | | | | 52(16) | | | | | |
| 3210.8(3) | $\langle 21 \rangle$ | | | | | | x | | | | x | |
| 3272.0(4) | | | | | | | | | 100 | | | |
| 3277.89(20) | $\langle 21, 23 \rangle$ | | | | 13(5) | | | | | | | |
| 3322.84(25) | $\langle 21, 23 \rangle$ | | | | 31(13) | | | | | | | |
| 3523.8(4) | | | | | 100 | | | | | | | |
| 3562.7(4) | | | | | 100 | | | | | | | |

Energy levels and branching ratios [99Ka26]. Part 9

¹²⁵Xe
54

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|--------------------------|--------------------------------|--------------|-----------------------------|----------------|-------------------|--------|--------|----------------|----------------|--------|--------------|
| | | E_f^* : $2J_f^\pi$: | 2652.7 19 | 2704.1 21 ⁽⁺⁾ | 2811.5 (23) | 2819.2 (19,21) | 2890.5 | 2926.6 | 2952.6 (19) | 2970.0 (21) | 3000.1 | 3055.2 25 |
| 3075.10(19) | $\langle 19, 21 \rangle$ | | 3(1) | 16(6) | | 9(3) | | 2(1) | | 3(1) | | |
| 3151.12(25) | | | | | | 48(12) | | | | | | |
| 3277.89(20) | $\langle 21, 23 \rangle$ | | | 20(7) | 8(3) | 20(7) | 5(2) | | 2(1) | | 2(1) | |
| 3322.84(25) | $\langle 21, 23 \rangle$ | | | 38(11) | | | | | 31(13) | | | |
| 3487.1(4) | | | | 100 | | | | | | | | |
| 3519.4(3) | | | | | | | 90(18) | | | | | 10(4) |
| 3619.0(3) | $\langle 27 \rangle$ | | | | 36(15) | | | | | | | |
| 3650.0(4) | | | | | | | | | 100 | | | |
| 3752.8(4) | | | | | 100 | | | | | | | |
| 4052.8(4) | | | | | | | | | | | | 50(15) |

Energy levels and branching ratios [99Ka26]. Part 10

¹²⁵Xe
54

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|--------------------------|--------------------------------|-------------------|--------------|--------|--------|--------|-------------------|-------------------|--------|----------------|--------|
| | | E_f^* : $2J_f^\pi$: | 3075.1 (19,21) | 3099.9 27 | 3131.2 | 3151.1 | 3272.0 | 3277.9 (21,23) | 3322.8 (21,23) | 3379.5 | 3486.3 (27) | 3519.4 |
| 3277.89(20) | $\langle 21, 23 \rangle$ | | 24(5) | | 2(1) | 4(1) | | | | | | |
| 3379.5(3) | | | 76(15) | | 24(8) | | | | | | | |

(continued)

 $^{125}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|--------------------|--------------------------------|-------------------|--------------|--------|--------|--------|-------------------|-------------------|--------|----------------|--------|
| | | $E_f^*:$ $2J_f^\pi:$ | 3075.1 ⟨19,21⟩ | 3099.9 27 | 3131.2 | 3151.1 | 3272.0 | 3277.9 ⟨21,23⟩ | 3322.8 ⟨21,23⟩ | 3379.5 | 3486.3 ⟨27⟩ | 3519.4 |
| 3486.3(3) | ⟨27⟩ | | | | | | | 98(20) | 2(1) | | | |
| 3619.0(3) | ⟨27⟩ | | | 64(19) | | | | | | | | |
| 3898.7(5) | | | | | | | | | | 100 | | |
| 3959.7(4) | | | | | | | | | | | 100 | |
| 4052.8(4) | | | | 50(21) | | | | | | | | |
| 4064.8(4) | | | | | | | | | 100 | | | |
| 4070.9(4) | ⟨31 ⁻ ⟩ | | | 100 | | | | | | | | |
| 4134.7(3) | | | | | | | | 55(17) | | | 45(19) | |
| 4211.1 | | | | x | | | x | | | | | |
| 4268.2(5) | | | | | | | | | | | | 100 |
| 4292.6(4) | | | | | | | | | | | 76(23) | |
| 4383.3(4) | ⟨29⟩ | | | <5 | | | | | | | | |

Energy levels and branching ratios [99Ka26]. Part 11

 $^{125}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|----------|--------------------------------|----------------|--------|--------|--------|------------------------------|--------|--------|--------|----------------|--------|
| | | $E_f^*:$ $2J_f^\pi:$ | 3619.0 ⟨27⟩ | 3959.7 | 4052.8 | 4064.8 | 4070.9 ⟨31 ⁻ ⟩ | 4134.7 | 4268.2 | 4292.6 | 4383.3 ⟨29⟩ | 4762.8 |
| 4292.6(4) | | | | 17(6) | | | | | 7(2) | | | |
| 4383.3(4) | ⟨29⟩ | | <5 | | | | 100 | | | | | |
| 4573.5(5) | | | 100 | | | | | | | | | |
| 4762.8(4) | | | | 12(4) | | | | | | 88(18) | | |
| 4912.0(5) | | | | | | 100 | | | | | | |
| 5067.5(5) | | | | | | | 100 | | | | | |
| 5121.8 | | | | | 100 | | | | | | | |
| 5137.9(6) | | | | | | | | | 100 | | | |
| 5162.4(4) | | | | | | | | | | 81(24) | | 19(8) |
| 5200.2(5) | | | | | 100 | | | | | | | |
| 5319.8(5) | | | | | | | 100 | | | | <50 | |

Energy levels and branching ratios [99Ka26]. Part 12

 $^{125}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|----------|--------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | $E_f^*:$ $2J_f^\pi:$ | 4912.0 | 5067.5 | 5137.9 | 5162.4 | 5319.8 | 5826.7 | 6097.5 | 6113.5 | 6251.5 | 6752.8 |
| 5826.7(6) | | | 100 | | | | | | | | | |
| 6097.5(6) | | | | 100 | | | | | | | | |
| 6113.5(6) | | | | | 100 | | | | | | | |
| 6251.5(5) | | | | | | 100 | | | | | | |

(continued)

¹²⁵Xe
54

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|----------|--------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | $E_f^*:$ $2J_f^\pi:$ | 4912.0 | 5067.5 | 5137.9 | 5162.4 | 5319.8 | 5826.7 | 6097.5 | 6113.5 | 6251.5 | 6752.8 |
| 6344.0 | | | | | | 100 | | | | | | |
| 6752.8(6) | | | | | | | | | | | 100 | |
| 6814.7(12) | | | | | | | x | | | | | |
| 7177.5(12) | | | | | | | | | | x | | |
| 7216.4(7) | | | | | | | | | 100 | | | |
| 7286.9(6) | | | | | | | | | | | x | x |
| 7335.5(12) | | | | | | | | x | | | | |
| 7768.7(9) | | | | | | | | | | | | x |

Energy levels and branching ratios [99Ka26]. Part 13

¹²⁵Xe
54

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | |
|----------------|----------|--------------------------------|--------|--------|--------|--------|--------|
| | | $E_f^*:$ $2J_f^\pi:$ | 7177.5 | 7216.4 | 7286.9 | 7768.7 | 8265.2 |
| 7768.7(9) | | | | | x | | |
| 8265.2(7) | | | | | x | | |
| 8331.5(16) | | | x | | | | |
| 8497.4(12) | | | | x | | | |
| 8704.5(10) | | | | | | x | x |

Energy levels and branching ratios [02Ka66, 93Mi12].

¹²⁶Xe
54

| E^* | J^π | L | σ (τ ,n) | ε | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|--------------|------------------|-------|-----------------------|---------------|----------------------|--------|--|-----------------------|-------------------------|-------------------------|-------------------------|------------------------|
| [keV] | | (d,n) | μ b/sr | (τ ,n) | Γ_{cm} | | E_{f}^* : J_{f}^π : | 0.0 0 ⁺ | 388.6 2 ⁺ | 879.9 2 ⁺ | 942.0 4 ⁺ | 1314 0 ⁺ |
| 0.0 | 0 ⁺ | 0 | 295 | 2.31 | Stable | 79Al14 | | | | | | |
| 388.631(9) | 2 ⁺ | | | | 41(1) ps | | | 100 | | | | |
| 879.871(10) | 2 ⁺ | | | | | | | 20.3(2) | 79.7(2) | | | |
| 942.00(3) | 4 ⁺ | | | | | | | | 100 | | | |
| 1313.88(3) | 0 ⁺ | | | | | | | | 80(1) | 19.7(3) | | |
| 1317.68(3) | 3 ⁺ | | | | | | | | 44.4(5) | 46.9(1) | 8.7(4) | |
| 1488.38(4) | 4 ⁺ | | | | | | | | 12.0(2) | 57.0(3) | 28.8(3) | |
| 1634.98(5) | 6 ⁺ | | | | | | | | | | 100 | |
| 1678.569(22) | 2 ⁺ | | | | | | | 35(1) | 15.3(4) | 25.1(4) | 8.9(2) | 10.2(2) |
| 1760.54(10) | 0 ⁺ | 0 | 98 | 0.67 | | 79Al14 | | | 100 | | | |
| 1867.20(21) | 6 ⁺ | | | | | | | | | | 100 | |
| 1903.13(7) | 4 ⁺ | | | | | | | | | 100 | x | |
| 1903.49(5) | 5 ⁺ | | | | | | | | | | 27.5(3) | |
| 2004.85(6) | 3 ⁽⁻⁾ | | | | | 06Mu04 | | | 83(1) | | 17.1(5) | |

(continued)

¹²⁶Xe
54

| E^* | J^π | L | σ (τ ,n) | ε | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|-------------|--------------------------------|-------|-----------------------|---------------|----------------------|--------|--|-----------------------|-------------------------|-------------------------|-------------------------|------------------------|
| [keV] | | (d,n) | $\mu\text{b/sr}$ | (τ ,n) | Γ_{cm} | | E_{f}^* : J_{f}^π : | 0.0 0 ⁺ | 388.6 2 ⁺ | 879.9 2 ⁺ | 942.0 4 ⁺ | 1314 0 ⁺ |
| 2042.09(11) | 4 ⁽⁺⁾ | | | | | | | | 96(2) | | x | |
| 2064.0(4) | 2 ⁽⁺⁾ | | | | ≤0.29 ps | | | | 73(1) | 27(1) | | |
| 2086.30(6) | 2 ⁺ | | | | | | | 15(1) | | 54(2) | 31(2) | |
| 2187.94(18) | | | | | | | | | | | 100 | |
| 2214.31(7) | 6 ⁺ | | | | | | | | | | 7.5(3) | |
| 2215.18(7) | ⟨1,2 ⁺ ⟩ | | | | | | | 19(3) | 81(4) | | | |
| 2228.66(8) | 0 ⁺ −2 | | | | | | | | 50(3) | 50(3) | | |
| 2258.78(21) | ⟨4,5⟩ | | | | | | | | | | | |
| 2262.48(11) | ⟨3⟩ | | | | ≤0.46 ps | | | | | 21(1) | | |
| 2301.56(7) | 5 ^(−) | | | | | | | | | | 75(2) | |
| 2304.62(7) | 4 ^(−) | | | | | | | | | | | |
| 2305.37(9) | ⟨2,3⟩ | | | | | | | | | 100 | | |
| 2314.89(9) | ⟨3 [−] ⟩ | | | | | | | | 18(1) | 82(3) | | |
| 2321.54(6) | 4 ^(−) | | | | | | | | | | 58(1) | |
| 2347.24(5) | 0 ⁺ −2 | | | | | | | | 100 | | | |
| 2350.57(7) | ⟨2,3⟩ | | | | | | | | | 45(3) | 17(1) | |
| 2358.59(7) | ⟨2 ⁺ ⟩ | | | | ≤0.069 ps | | | 58(10) | 42(10) | | | |
| 2363.07(7) | 5 ⁺ | | | | | | | | | | | |
| 2395.30(7) | ⟨3,4 ⁺ ⟩ | | | | | | | | | | 65(2) | |
| 2414.28(7) | 5 ^(−) | | | | | | | | | | 71(2) | |
| 2419.24(6) | 1 ⁺ ,2 ⁺ | | | | | | | | 29(2) | 52(2) | | |
| 2435.71(10) | 8 ⁺ | | | | | | | | | | | |
| 2455.32(2) | 2 ⁺ | | | | | | | 11.4(3) | 63(2) | 15.5(4) | 5.8(3) | |
| 2489.36(5) | ⟨2 ⁺ ⟩ | | | | ≤0.25 ps | | | | 27(1) | 73(2) | | |
| 2492.59(8) | ⟨6 ⁺ ⟩ | | | | | | | | | | 16.7(9) | |
| 2502.56(5) | 0 ⁺ −2 | | | | | | | | 3.2(3) | 97(2) | | |
| 2515.21(11) | ⟨3⟩ | | | | | | | | | | 100 | |
| 2520.87(8) | 0 ⁺ −2 | | | | | | | | 77(2) | 23(2) | | |
| 2525.7(6) | | | | | | | | | | | | |
| 2537.79(11) | 4 | | | | | | | | | | | |
| 2553.03(10) | 0 ⁺ | | | | | | | x | | | | |
| 2562.15(8) | 6 [−] | | | | | | | | | | | |
| 2565.16(4) | ⟨3 ⁺ ⟩ | | | | | | | | 73(1) | | | |
| 2591.40(8) | 7 [−] | | | | <0.2 ns | | | | | | | |
| 2594.6(10) | | | | | | | | | x | | | |
| 2598.58(9) | 5 | | | | | | | | | | 54(3) | |
| 2600(40) | X ⁺ | 0+2 | 36 | 0.23 | | 79A114 | | | | | | |
| 2603.9(10) | | | | | | | | | | x | | |
| 2608.87(8) | ⟨4,5⟩ | | | | | | | | | | x | |
| 2622.91(9) | 5,6 | | | | | | | | | | | |
| 2631.8(7) | | | | | | | | | | x | | |
| 2632.4(10) | | | | | | | | | | | | |
| 2642.4(6) | | | | | | | | | | x | x | |
| 2661.42(12) | 7 ⁺ | | | | | | | | | | | |
| 2664.55(8) | 6 ⁽⁺⁾ | | | | | | | | | | 40(2) | |

(continued)

¹²⁶Xe
₅₄

| E^* | J^π | L | σ (τ ,n) | ε | $T_{1/2}$ or Ref. | E^*_f : J^π_f | Branching ratios in percentage | | | | |
|-------------|-----------------------------------|-------|-----------------------|---------------|--------------------|--------------------------------------|--------------------------------|-------------------------|-------------------------|-------------------------|------------------------|
| [keV] | | (d,n) | $\mu\text{b/sr}$ | (τ ,n) | Γ_cm | | 0.0 0 ⁺ | 388.6 2 ⁺ | 879.9 2 ⁺ | 942.0 4 ⁺ | 1314 0 ⁺ |
| 2677.85(8) | 7 [−] | | | | | | | | | | |
| 2681.0(10) | | | | | | | | | | x | |
| 2685.7(10) | | | | | | | | x | | | |
| 2694.6(3) | | | | | | | | | x | | |
| 2702.2(7) | | | | | | | | | | x | |
| 2739.7(10) | | | | | | | | | | | |
| 2741.85(9) | 5 ^{⟨−} | | | | | | | | | 22(2) | |
| 2753.53(19) | ⟨3 ⁺ −5 ⁺ ⟩ | | | | | | | | | | |
| 2756.9(10) | | | | | | | | | x | | |
| 2758.21(11) | 8 [−] | | | | 1.3(2) ns | | | | | | |
| 2759.46(10) | | | | | | | | 100 | | | |
| 2762.58(6) | 6 [−] | | | | | | | | | | |
| 2765.6(5) | ⟨3 ⁺ ,5 ⁺ ⟩ | | | | | | | | | x | |
| 2779.8(5) | | | | | | | | | | | |
| 2788.16(10) | ⟨5 ⁺ ,6 [−] ⟩ | | | | | | | | | | |
| 2789.9(4) | ⟨5⟩ | | | | | | | | | x | |
| 2796.42(8) | 0 ⁺ ,1,2 | | | | | | | 94(2) | 6.4(6) | | |
| 2801.0(10) | | | | | | | | | | x | |
| 2811.6(7) | | | | | | | | | | | |
| 2818.7(10) | | | | | | | | x | | | |
| 2830.9(7) | | | | | | | | | | | |
| 2848.6(7) | | | | | | | | | | | |
| 2850.4(10) | | | | | | | | | | | |
| 2859.7(10) | | | | | | | | x | | | |
| 2875.5(5) | ⟨5 ⁺ ,7 ⁺ ⟩ | | | | | | | | | | |
| 2877.3(7) | | | | | | | | | x | | |
| 2878.3(6) | | | | | | | | | | x | |
| 2880.97(9) | 7 [−] | | | | | | | | | | |
| 2884.7(8) | | | | | | | | | | | |
| 2885.0(7) | | | | | | | | | | | |
| 2885.5(10) | | | | | | | | | | | |
| 2893.18(5) | ⟨2 ⁺ ⟩ | | | | | | 6(1) | 53(1) | 31(2) | 11(3) | |
| 2898.0(10) | | | | | | | | | | x | |
| 2907.6(7) | ⟨3 ⁺ −5 ⁺ ⟩ | | | | | | | | | | |
| 2915.0(7) | | | | | | | | | | | |
| 2929.0(10) | | | | | | | | | | x | |
| 2934.7(5) | ⟨5 ⁺ ,7 ⁺ ⟩ | | | | | | | | | | |
| 2941.6(5) | | | | | | | | | | | |
| 2941.9(10) | | | | | | | | | x | | |
| 2948.0(5) | | | | | | | | | | | |
| 2952.30(9) | ⟨7,8⟩ | | | | | | | | | | |
| 2953.0(10) | | | | | | | | | | x | |
| 2962.12(11) | | | | | | | | | | 100 | |
| 2965.9(10) | | | | | | | | | | | |
| 2973.9(7) | ⟨4−6⟩ | | | | | | | | | | |

(continued)

¹²⁶Xe
54

| E^* | J^π | L | σ (τ ,n) | ε | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|-------------|-------------------|-------|-----------------------|---------------|----------------------|--------|--|-----------------------|-------------------------|-------------------------|-------------------------|------------------------|
| [keV] | | (d,n) | $\mu\text{b/sr}$ | (τ ,n) | Γ_{cm} | | E_{f}^* : J_{f}^π : | 0.0 0 ⁺ | 388.6 2 ⁺ | 879.9 2 ⁺ | 942.0 4 ⁺ | 1314 0 ⁺ |
| 2994.0(7) | | | | | | | | | | | | |
| 2996.1(10) | | | | | | | | | | | | |
| 2999.0(10) | | | | | | | | | | | x | |
| 3001.7(10) | | | | | | | | | | | | |
| 3003.0(10) | | | | | | | | | | | | |
| 3025.9(10) | | | | | | | | | x | | | |
| 3049.7(7) | | | | | | | | | | | | |
| 3050.1(10) | | | | | | | | | | | | |
| 3051.5(7) | | | | | | | | | | | | |
| 3061.66(21) | | | | | | | | | | | | |
| 3064.31(13) | 9 [−] | | | | | | | | | | | |
| 3073.0(10) | | | | | | | | | | | x | |
| 3075.6(10) | | | | | | | | | | | | |
| 3084.8(4) | | | | | | | | | | | | |
| 3091.0(7) | | | | | | | | | | | | |
| 3094.28(15) | ⟨8 [−] ⟩ | | | | | | | | | | | |
| 3099.3(7) | | | | | | | | | | | x | |
| 3106.0(10) | | | | | | | | | | | | |
| 3110(180) | X ⁺ | 0+2 | 20 | 0.61 | | 79Al14 | | | | | | |
| 3117.19(13) | ⟨8 ⁺ ⟩ | | | | | | | | | | | |
| 3123.5(10) | | | | | | | | | | | | |
| 3156.3(7) | | | | | | | | | | | | |
| 3157.4(10) | | | | | | | | | | | | |
| 3170.3(10) | | | | | | | | | | | | |
| 3188.6(10) | | | | | | | | | | | | |
| 3194.7(10) | | | | | | | | | | | | |
| 3196.0(10) | | | | | | | | | | | | |
| 3197.98(10) | ⟨8 [−] ⟩ | | | | | | | | | | | |
| 3217.6(10) | | | | | | | | | | | | |
| 3218.3(7) | | | | | | | | | | | | |
| 3219.02(10) | ⟨9 [−] ⟩ | | | | | | | | | | | |
| 3243.0(10) | | | | | | | | | | | | |
| 3252.1(7) | | | | | | | | | | | | |
| 3271.0(10) | | | | | | | | | | | | |
| 3286.7(10) | | | | | | | | | | | | |
| 3294.64(17) | ⟨9 [−] ⟩ | | | | | | | | | | | |
| 3298.0(10) | | | | | | | | | | | | |
| 3312.7(7) | | | | | | | | | | | | |
| 3313.3(3) | | | | | | | | | | | | |
| 3314.14(16) | 10 ⁺ | | | | | | | | | | | |
| 3329.0(10) | | | | | | | | | | | | |
| 3359.71(15) | 10 ⁺ | | | | | | | | | | | |
| 3360.0(10) | | | | | | | | | | | | |
| 3369.4(10) | | | | | | | | | | | | |
| 3381.4(10) | | | | | | | | | | | | |

(continued)

 $^{126}_{54}\text{Xe}$

| E^* | J^π | L | σ (τ, n) | ε | $T_{1/2}$ or Ref. | E_f^* : | Branching ratios in percentage | | | | |
|-------------|------------------------|--------|------------------------|---------------|----------------------|-------------|--------------------------------|-------|-------|-------|-------|
| [keV] | | (d, n) | $\mu\text{b/sr}$ | (τ, n) | Γ_{cm} | J_f^π : | 0.0 | 388.6 | 879.9 | 942.0 | 1314 |
| | | | | | | | 0^+ | 2^+ | 2^+ | 4^+ | 0^+ |
| 3383.78(15) | $\langle 9^+ \rangle$ | | | | | | | | | | |
| 3386.9(3) | | | | | | | | | | | |
| 3396.1(10) | | | | | | | | | | | |
| 3446.31(15) | 10^- | | | | | | | | | | |
| 3471.1(3) | | | | | | | | | | | |
| 3520.42(16) | | | | | | | | | | | |
| 3521.2(10) | | | | | | | | | | | |
| 3544.0(10) | | | | | | | | | | | |
| 3578.7(10) | | | | | | | | | | | |
| 3591.9(4) | | | | | | | | | | | |
| 3625.7(10) | | | | | | | | | | | |
| 3760.12(20) | | | | | | | | | | | |
| 3783.31(19) | 11^- | | | | | | | | | | |
| 3875.24(18) | | | | | | | | | | | |
| 3884.57(17) | 12^+ | | | | | | | | | | |
| 3920.92(23) | | | | | | | | | | | |
| 3963.77(23) | | | | | | | | | | | |
| 3998.3(4) | | | | | | | | | | | |
| 4240.71(23) | | | | | | | | | | | |
| 4274.4(3) | $\langle 12^+ \rangle$ | | | | | | | | | | |
| 4532.5(4) | | | | | | | | | | | |
| 4566.9(4) | | | | | | | | | | | |
| 4597.11(23) | | | | | | | | | | | |
| 4619.45(21) | 14^+ | | | | | | | | | | |
| 4701.0(3) | | | | | | | | | | | |
| 4732.7(3) | | | | | | | | | | | |
| 4737.5(4) | | | | | | | | | | | |
| 4769.1(4) | | | | | | | | | | | |
| 5090.0(4) | | | | | | | | | | | |
| 5097.6(5) | | | | | | | | | | | |
| 5392.8(4) | | | | | | | | | | | |
| 5508.6(4) | $\langle 16^+ \rangle$ | | | | | | | | | | |
| 5636.3(4) | | | | | | | | | | | |
| 5694.7(5) | | | | | | | | | | | |
| 5923.1(5) | | | | | | | | | | | |
| 6013.9(5) | | | | | | | | | | | |
| 6249.0(5) | | | | | | | | | | | |
| 6509.4(6) | | | | | | | | | | | |
| 7186.0(5) | | | | | | | | | | | |
| 7587.0(7) | | | | | | | | | | | |
| 8744.8(7) | | | | | | | | | | | |
| 0+X | | | | | | | | | | | |
| 280.0+X | | | | | | | | | | | |
| 656.0+X | | | | | | | | | | | |
| 1019.0+X | | | | | | | | | | | |

(continued)

 $^{126}_{54}\text{Xe}$

| E^* | J^π | L | σ (τ ,n) | ε | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|----------|---------|-------|-----------------------|---------------|----------------------|------|--------------------------------|----------------|----------------|----------------|----------------|----------------|
| [keV] | | (d,n) | $\mu\text{b/sr}$ | (τ ,n) | Γ_{cm} | | E_{f}^* : | 0.0 | 388.6 | 879.9 | 942.0 | 1314 |
| | | | | | | | J_{f}^π : | 0 ⁺ | 2 ⁺ | 2 ⁺ | 4 ⁺ | 0 ⁺ |
| 1441.0+X | | | | | | | | | | | | |
| 1837.0+X | | | 79Al14 | 79Al14 | | Ref. | | | | | | |

Additional data on this isotope can be found in [96Ko16, 92Ma08, 90Li13].

Abundance: 0.089(1) %.

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [02Ka66, 93Mi12]. Part 2

 $^{126}_{54}\text{Xe}$

| E^* | J^π | Branching ratios in percentage | | | | | | | | | | |
|--------------|---------------------------------|--------------------------------|------------------------|------------------------|------------------------|--------------------------|--------------------------|--------------------------|----------------------------|----------------------------|----------------------------|--------------------------|
| [keV] | | E^*_f : J^π_f : | 1318 3 ⁺ | 1488 4 ⁺ | 1635 6 ⁺ | 1678.6 2 ⁺ | 1903.1 4 ⁺ | 1903.5 5 ⁺ | 2004.8 3 ⁽⁻⁾ | 2042.1 4 ⁽⁺⁾ | 2064.0 2 ⁽⁺⁾ | 2214.3 6 ⁺ |
| 1488.38(4) | 4 ⁺ | | 2.2(7) | | | | | | | | | |
| 1678.569(22) | 2 ⁺ | | 5.33(4) | | | | | | | | | |
| 1903.13(7) | 4 ⁺ | | x | x | | | | | | | | |
| 1903.49(5) | 5 ⁺ | | 61.4(4) | 10(1) | 0.9(1) | | | | | | | |
| 2042.09(11) | 4 ⁽⁺⁾ | | | | | 4.3(22) | | | | | | |
| 2214.31(7) | 6 ⁺ | | | 72.3(8) | 20.2(3) | | | | | | | |
| 2258.78(21) | ⟨4,5⟩ | | | 100 | | | | | | | | |
| 2262.48(11) | ⟨3⟩ | | 79(2) | | | | | | | | | |
| 2301.56(7) | 5 ⁽⁻⁾ | | | 2.3(4) | 22.3(11) | | | | | | | |
| 2304.62(7) | 4 ⁽⁻⁾ | | 72(3) | 18.2(5) | | | 9.6(11) | | | | | |
| 2321.54(6) | 4 ⁽⁻⁾ | | 26.3(8) | | | | | | | | | |
| 2350.57(7) | ⟨2,3⟩ | | 38(1) | | | | | | 15.4(4) | | | |
| 2363.07(7) | 5 ⁺ | | 46(1) | 13.2(5) | 14.6(5) | | x | 25.9(5) | | | | |
| 2395.30(7) | ⟨3,4 ⁺ ⟩ | | 13(1) | 22(2) | | | | | | | | |
| 2414.28(7) | 5 ⁽⁻⁾ | | | 22(2) | 6(4) | | | | 1.5(5) | | | |
| 2419.24(6) | 1 ⁺ , 2 ⁺ | | 19(2) | | | | | | | | | |
| 2435.71(10) | 8 ⁺ | | | | 100 | | | | | | | |
| 2455.32(2) | 2 ⁺ | | 3.4(3) | | | 1.1(4) | | | | | | |
| 2492.59(8) | ⟨6 ⁺ ⟩ | | | x | 83.3(18) | | | | | | | |
| 2525.7(6) | | | x | | | x | | | x | | | |
| 2537.79(11) | 4 | | 100 | | | | | | | | | |
| 2562.15(8) | 6 ⁻ | | | | | | | 69(1) | | | | 16(4) |
| 2565.16(4) | ⟨3 ⁺ ⟩ | | 27.3(10) | | | | | | | | | |
| 2591.40(8) | 7 ⁻ | | | | 86.2(9) | | | | | | | 10.6(4) |
| 2598.58(9) | 5 | | | 35.4(13) | | | | | | | | |
| 2608.87(8) | ⟨4,5⟩ | | | 29(1) | 36(1) | | | 35(4) | | | | |
| 2622.91(9) | 5,6 | | | | 72(5) | | | 12(2) | x | | | 16.0(11) |
| 2631.8(7) | | | x | | | | | | | | | |
| 2632.4(10) | | | | x | | | | | | | | |
| 2642.4(6) | | | | x | | | | | | | | |

(continued)

¹²⁶Xe
54

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | | |
|----------------|-----------------------------------|--------------------------------|------------------------|------------------------|------------------------|--------------------------|--------------------------|--------------------------|----------------------------|----------------------------|----------------------------|--------------------------|
| | | $E_f^*:$ $J_f^\pi:$ | 1318 3 ⁺ | 1488 4 ⁺ | 1635 6 ⁺ | 1678.6 2 ⁺ | 1903.1 4 ⁺ | 1903.5 5 ⁺ | 2004.8 3 ⁽⁻⁾ | 2042.1 4 ⁽⁺⁾ | 2064.0 2 ⁽⁺⁾ | 2214.3 6 ⁺ |
| 2661.42(12) | 7 ⁺ | | | | | | | 97(13) | | | | 2.5(9) |
| 2664.55(8) | 6 ⁽⁺⁾ | | | | 29(1) | | | | | 31(1) | | |
| 2677.85(8) | 7 ⁻ | | | | 90(7) | | | | | | | 10(1) |
| 2702.2(7) | | | | x | | | | | | | | |
| 2739.7(10) | | x | | | | | | | | | | |
| 2741.85(9) | 5 ⁽⁻⁾ | | | 38(2) | | | | | x | | | |
| 2753.53(19) | ⟨3 ⁺ -5 ⁺ ⟩ | x | x | | | | | x | | | | |
| 2762.58(6) | 6 ⁻ | | | | 34(1) | | | 27(1) | | | | |
| 2779.8(5) | | | | | | | | | | | x | |
| 2788.16(10) | ⟨5 ⁺ ,6 ⁻ ⟩ | | | | | | | 44(3) | | | | |
| 2789.9(4) | ⟨5⟩ | | | | x | | | | | | | |
| 2811.6(7) | | x | | | | | | x | | | | |
| 2830.9(7) | | | | x | | | | | | | | x |
| 2848.6(7) | | x | | | | | | | | | | |
| 2850.4(10) | | | | x | | | | | | | | |
| 2875.5(5) | ⟨5 ⁺ ,7 ⁺ ⟩ | | | | x | | | | | | | |
| 2877.3(7) | | x | | | | | | | | | | |
| 2878.3(6) | | | | | | | x | | | | | |
| 2880.97(9) | 7 ⁻ | | | | 29.0(8) | | | | | | | 69(3) |
| 2885.5(10) | | | | | | | | x | | | | |
| 2907.6(7) | ⟨3 ⁺ -5 ⁺ ⟩ | x | | | | | | x | | | | |
| 2915.0(7) | | | | | | | x | | | | | |
| 2934.7(5) | ⟨5 ⁺ ,7 ⁺ ⟩ | | | | x | | | | | | | |
| 2941.6(5) | | | | | | | | | | | | x |
| 2948.0(5) | | | | | | | | x | | | | |
| 2952.30(9) | ⟨7,8⟩ | | | | x | | | | | | | 100 |
| 2973.9(7) | ⟨4-6⟩ | | | | | | x | | | | | |
| 2994.0(7) | | | | | | | x | | | | | |
| 2996.1(10) | | | | | | | x | | | | | |
| 3001.7(10) | | x | | | | | | | | | | |
| 3003.0(10) | | | | | x | | | | | | | |
| 3051.5(7) | | | | | | | | | | | | x |
| 3061.66(21) | | | | | | | | | | | | 100 |
| 3091.0(7) | | | | | x | | | | | | | |
| 3106.0(10) | | | | | x | | | | | | | |
| 3156.3(7) | | | | | x | | | | | | | |
| 3194.7(10) | | x | | | | | | | | | | |
| 3196.0(10) | | | | | x | | | | | | | |
| 3243.0(10) | | | | | x | | | | | | | |
| 3271.0(10) | | | | | x | | | | | | | |
| 3298.0(10) | | | | | x | | | | | | | |
| 3312.7(7) | | | | | x | | | | | | | |
| 3329.0(10) | | | | | x | | | | | | | |
| 3360.0(10) | | | | | x | | | | | | | |
| 3544.0(10) | | | | | x | | | | | | | |

Energy levels and branching ratios [02Ka66, 93Mi12]. Part 3

¹²⁶Xe
54

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | | |
|----------------|-----------------------------------|--------------------------------|----------------------------|----------------------------|-----------------|-----------------------------|----------------------------|-----------------------------|--------------------------|-------------------------------|----------------------------|--------------------------|
| | | $E_f^*:$ $J_f^\pi:$ | 2301.6 5 ⁽⁻⁾ | 2304.6 4 ⁽⁻⁾ | 2305.4 (2,3) | 2314.9 (3 ⁻) | 2321.5 4 ⁽⁻⁾ | 2358.6 (2 ⁺) | 2363.1 5 ⁺ | 2395.3 (3,4 ⁺) | 2414.3 5 ⁽⁻⁾ | 2435.7 8 ⁺ |
| 2562.15(8) | 6 ⁻ | | 13(1) | | 2.0(7) | | | | | | | |
| 2591.40(8) | 7 ⁻ | | 3.2(4) | | | | | | | | | |
| 2598.58(9) | 5 | | | | | | | | | 10.1(13) | | |
| 2677.85(8) | 7 ⁻ | | ≤27 | | | | | | | | | |
| 2694.6(3) | | | | | | | | x | | | | |
| 2741.85(9) | 5 ⁽⁻⁾ | | | | | 40(2) | | | | | | |
| 2753.53(19) | (3 ⁺ -5 ⁺) | | | | | | | | x | | | |
| 2758.21(11) | 8 ⁻ | | | | | | | | | | 15(2) | |
| 2762.58(6) | 6 ⁻ | | 12.6(6) | | | 17(2) | | | | 9.6(6) | | |
| 2788.16(10) | (5 ⁺ ,6 ⁻) | | | 48(2) | | | | | | | | |
| 2789.9(4) | (5) | | | | | | | | | x | | |
| 2848.6(7) | | | | | | x | | | | | | |
| 2878.3(6) | | | | | | | | | | x | | |
| 2880.97(9) | 7 ⁻ | | | | | | | | | 1.5(8) | | |
| 2915.0(7) | | | | | x | | | | | | | |
| 2941.6(5) | | | x | | | | | | | x | | |
| 2948.0(5) | | | x | | | | | | | x | | |
| 2965.9(10) | | | | | x | | | | | | | |
| 3049.7(7) | | | x | | | | | | | | | |
| 3050.1(10) | | | | | | | | x | | | | |
| 3051.5(7) | | | | | | | | | | | x | |
| 3075.6(10) | | | | x | | | | | | | | |
| 3099.3(7) | | | | x | | | | | | | | |
| 3117.19(13) | (8 ⁺) | | | | | | | | | | 100 | |
| 3123.5(10) | | | | | | x | | | | | | |
| 3156.3(7) | | | | | | | | | | | x | |
| 3170.3(10) | | | | | | | | | | x | | |
| 3197.98(10) | (8 ⁻) | | | | | | | | | | 29(4) | |
| 3217.6(10) | | | x | | | | | | | | | |
| 3219.02(10) | (9 ⁻) | | | | | | | | | | 57(3) | |
| 3286.7(10) | | | | | | | | | | | x | |
| 3314.14(16) | 10 ⁺ | | | | | | | | | | 100 | |
| 3359.71(15) | 10 ⁺ | | | | | | | | | | 100 | |
| 3396.1(10) | | | | | | | | x | | | | |
| 3578.7(10) | | | | | | | | | | | x | |
| 3625.7(10) | | | | | | | | | | | x | |

Energy levels and branching ratios [02Ka66, 93Mi12]. Part 4

 $^{126}_{54}\text{Xe}$

| E^* | J^π | Branching ratios in percentage | | | | | | | | | | |
|-------------|----------------------------|--------------------------------|---------------------------------|-------------|-----------------|-----------------|-------------|---------------------------------|---------------|-----------------|---------------------|-----------------|
| [keV] | | E_f^* : J_f^π : | 2492.6 $\langle 6^+ \rangle$ | 2537.8 4 | 2562.2 6^- | 2591.4 7^- | 2598.6 5 | 2608.9 $\langle 4,5 \rangle$ | 2622.9 5,6 | 2661.4 7^+ | 2664.5 $6^{(+)}$ | 2677.8 7^- |
| 2758.21(11) | 8^- | | | | | 85(2) | | | | | | |
| 2788.16(10) | $\langle 5^+, 6^- \rangle$ | | | | 8(1) | | | | | | | |
| 2884.7(8) | | | | x | | | x | | | | | |
| 2885.0(7) | | | | | x | | | | | | | x |
| 2941.6(5) | | x | | | x | | | | | | | |
| 2973.9(7) | $\langle 4-6 \rangle$ | x | | | | | | | | | | |
| 3049.7(7) | | | | | | | | | | | | x |
| 3064.31(13) | 9^- | | | | | 33(2) | | | | | | |
| 3084.8(4) | | | | | | | | | x | | | |
| 3094.28(15) | $\langle 8^- \rangle$ | | | | 57(3) | | | | | | | 43(6) |
| 3157.4(10) | | | | | | | | | | x | | |
| 3197.98(10) | $\langle 8^- \rangle$ | | | | | | | | | x | | |
| 3219.02(10) | $\langle 9^- \rangle$ | | | | | | | | | | | 43(4) |
| 3252.1(7) | | | | | | x | | | | | | x |
| 3312.7(7) | | | | | | x | | | | | | |
| 3313.3(3) | | | | | | | | x | | | | |
| 3369.4(10) | | | | | | | | | | x | | |
| 3381.4(10) | | | | | | x | | | | | | |
| 3383.78(15) | $\langle 9^+ \rangle$ | | | | | | | | | 85(19) | | |
| 3386.9(3) | | | | | | | | | | | x | |
| 3471.1(3) | | | | | | | | | | | x | |
| 3520.42(16) | | | | | | | | | | 100 | | |

Energy levels and branching ratios [02Ka66, 93Mi12]. Part 5

 $^{126}_{54}\text{Xe}$

| E^* | J^π | Branching ratios in percentage | | | | | | | | | | |
|-------------|-------------------|--------------------------------|--------------------------|--------------------------|--------------------------|----------|--------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| [keV] | | E^*_f : J^π_f : | 2758.2 8 [−] | 2762.6 6 [−] | 2881.0 7 [−] | 3061.7 | 3064.3 9 [−] | 3094.3 ⟨8 [−] ⟩ | 3117.2 ⟨8 ⁺ ⟩ | 3198.0 ⟨8 [−] ⟩ | 3219.0 ⟨9 [−] ⟩ | 3294.6 ⟨9 [−] ⟩ |
| 2948.0(5) | | | | x | | | | | | | | |
| 2994.0(7) | | | | x | | | | | | | | |
| 3064.31(13) | 9 [−] | | 67(2) | | | | | | | | | |
| 3091.0(7) | | | | | x | | | | | | | |
| 3188.6(10) | | | | x | | | | | | | | |
| 3197.98(10) | ⟨8 [−] ⟩ | | | 71(4) | x | | | | | | | |
| 3218.3(7) | | | | x | x | | | | | | | |
| 3294.64(17) | ⟨9 [−] ⟩ | | | | 78(2) | 21.6(19) | | | | | | |
| 3383.78(15) | ⟨9 ⁺ ⟩ | | | | | | | | 15(5) | | | |
| 3446.31(15) | 10 [−] | | 67(2) | | | | 32.6(11) | | | | | |
| 3521.2(10) | | | x | | | | | | | | | |
| 3591.9(4) | | | | | | x | | | | | | |
| 3760.12(20) | | | | | | | | x | | | x | |
| 3783.31(19) | 11 [−] | | | | | | 85(3) | | | | | |

(continued)

 $^{126}_{54}\text{Xe}$

| E^* | J^π | Branching ratios in percentage | | | | | | | | | |
|-------------|-----------|--------------------------------|----------------|----------------|--------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | E^*_f | 2758.2 | 2762.6 | 2881.0 | 3061.7 | 3064.3 | 3094.3 | 3117.2 | 3198.0 | 3219.0 | 3294.6 |
| [keV] | J^π_f | 8 ⁻ | 6 ⁻ | 7 ⁻ | | 9 ⁻ | ⟨8 ⁻ ⟩ | ⟨8 ⁺ ⟩ | ⟨8 ⁻ ⟩ | ⟨9 ⁻ ⟩ | ⟨9 ⁻ ⟩ |
| 3875.24(18) | | | | | | | | | x | | x |
| 3920.92(23) | | | | | | | | | | 100 | |
| 3963.77(23) | | | | | | | | | | | 100 |

Energy levels and branching ratios [02Ka66, 93Mi12]. Part 6

 $^{126}_{54}\text{Xe}$

| E^* | J^π | Branching ratios in percentage | | | | | | | | | | |
|-------------|------------------------|--------------------------------|-----------|----------|-----------------------|----------|--------|--------|--------|--------|--------|--------|
| [keV] | | E^*_f : | 3314.1 | 3359.7 | 3383.8 | 3446.3 | 3760.1 | 3783.3 | 3875.2 | 3884.6 | 3920.9 | 3963.8 |
| | | J^π_f : | 10^+ | 10^+ | $\langle 9^+ \rangle$ | 10^- | | 11^- | | 12^+ | | |
| 3783.31(19) | 11^- | | | | | 15.3(11) | | | | | | |
| 3884.57(17) | 12^+ | | 56.7(10) | 43.3(10) | | | | | | | | |
| 3998.3(4) | | | | | 100 | | | | | | | |
| 4240.71(23) | | | | | | 69(2) | | 31(2) | | | | |
| 4274.4(3) | $\langle 12^+ \rangle$ | | ≤ 87 | 100 | | | | | | | | |
| 4532.5(4) | | | | | | | 100 | | | | | |
| 4566.9(4) | | | | | | | | 100 | | | | |
| 4597.11(23) | | | | | | | | | x | | | 100 |
| 4619.45(21) | 14^+ | | | | | | | | | 100 | | |
| 4701.0(3) | | | | | | | | | | | | 100 |
| 4732.7(3) | | | | | | | | | | | 100 | |
| 4737.5(4) | | | | | | | | | | | 100 | |

Energy levels and branching ratios [02Ka66, 93Mi12]. Part 7

 $^{126}_{54}\text{Xe}$

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | |
|----------------|--------------------|--------------------------------|--------|--------|------------------------------|--------|----------------------------|--------|--------|--------|--------|
| | | E_f^* : J_f^π : | 3998.3 | 4240.7 | 4274.4 ⟨12 ⁺ ⟩ | 4566.9 | 4619.45 14 ⁺ | 4769.1 | 5090.0 | 5097.6 | 5392.8 |
| 4769.1(4) | | | 100 | | | | | | | | |
| 5090.0(4) | | | | | 100 | | | | | | |
| 5097.6(5) | | | | 100 | | | | | | | |
| 5392.8(4) | | | | | | 100 | | | | | |
| 5508.6(4) | ⟨16 ⁺ ⟩ | | | | | | 100 | | | | |
| 5636.3(4) | | | | | | | 100 | | | | |
| 5694.7(5) | | | | | | | | 100 | | | |
| 5923.1(5) | | | | | | | | | 100 | | |
| 6013.9(5) | | | | | | | | | | 100 | |
| 6249.0(5) | | | | | | | | | | | 100 |

Energy levels and branching ratios [02Ka66, 93Mi12]. Part 8

¹²⁶Xe
₅₄

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | |
|----------------|---------|--------------------------------|----------------------------------|--------|--------|--------|-----|---------|---------|------------------|
| | | E_f^* : J_f^π : | 5508.6 $\langle 16^+ \rangle$ | 6249.0 | 6509.4 | 7587.0 | 0+X | 280.0+X | 656.0+X | 1019+X 1441+X |
| 6509.4(6) | | | 100 | | | | | | | |
| 7186.0(5) | | | | 100 | | | | | | |
| 7587.0(7) | | | | | 100 | | | | | |
| 8744.8(7) | | | | | | 100 | | | | |
| 280.0+X | | | | | | | x | | | |
| 656.0+X | | | | | | | | x | | |
| 1019.0+X | | | | | | | | x | | |
| 1441.0+X | | | | | | | | | | x |
| 1837.0+X | | | | | | | | | | x |

Energy levels and branching ratios [96Ki01].

¹²⁷Xe
₅₄

| E^* | $2J^\pi$ | L | σ (τ ,n) | ε | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|-------------|--------------------------------|-------|-----------------------|---------------|----------------------|--------|---|-----------------------|-----------------------|-----------------------|-------------------------------|-----------------------|
| [keV] | | (d,n) | $\mu\text{b/sr}$ | (τ ,n) | Γ_{cm} | | E_{f}^* : $2J_{\text{f}}^\pi$: | 0.0 1 ⁺ | 125 3 ⁺ | 297 9 ⁻ | 309 $\langle 11^- \rangle$ | 321 3 ⁺ |
| 0.0 | 1 ⁺ | 0 | 436 | 3.60 | 36.4(1) d | 79Al14 | | | | | | |
| 124.75(2) | 3 ⁺ | | | | 0.28(1) ns | | | 100 | | | | |
| 297.10(8) | 9 ⁻ | | | | 69.2(9) s | | | | 100 | | | |
| 308.98(13) | $\langle 11^- \rangle$ | | | | | | | | | x | | |
| 321.550(20) | 3 ⁺ | | | | | | 78(1) | 22.5(3) | | | | |
| 342.23(4) | 7 ⁺ | | | | 36.7(9) ns | | | 85(8) | 15(5) | | | |
| 375.459(24) | 5 ⁺ | | | | | | 93(1) | 7(3) | | | | x |
| 411.965(23) | 1 ⁺ | | | | | | 94 | 5.72(7) | | | | 0.30(3) |
| 419.59(6) | 5 ⁻ -9 ⁻ | | | | | | | | | | | |
| 509.97(3) | $\langle 3 \rangle^+$ | | | | | | | 90(2) | | | | 10(3) |
| 530.31(4) | 7 ⁺ | | | | | | | 92(1) | | | | |
| 587.065(22) | 3 ⁺ | | | | | | 44(1) | 52.8(5) | | | | 1.35(2) |
| 645.90(8) | $\langle 9 \rangle^+$ | | | | | | | | 32(5) | | | |
| 711.61(3) | 7 ⁺ | | | | <2 ns | | | 22(3) | | | | 50(1) |
| 720.09(3) | | | | | | | 23(8) | 62(8) | | | | |
| 747.7(3) | | | | | | | | | | | | 100 |
| 792.37(14) | $\langle 11^-, 13^- \rangle$ | | | | | | | | | 12(5) | 88(6) | |
| 804.75(20) | 5 ⁺ | | | | | | | | | | | 51(28) |
| 828.09(15) | $\langle 15^- \rangle$ | | | | | | | | | | 100 | |
| 846.0(3) | | | | | | | | | | | | |
| 878.12(6) | | | | | | | | | | | | 100 |
| 897.63(12) | $\langle 9^+ \rangle$ | | | | | | | | | | | |
| 904.80(17) | 1 ⁺ -5 ⁺ | | | | | | | | | | | |
| 930.28(15) | 3 ⁺ | | | | | | | 58(17) | | | | 42(17) |
| 931.070(24) | 3 ⁺ | | | | | | | 35(1) | 38.4(4) | | | 3.2(5) |
| 938.17(11) | $\langle 11 \rangle^+$ | | | | | | | | | | | |
| 960.10(12) | $\langle 9, 13^- \rangle$ | | | | | | | | | 64(4) | 36(3) | |

(continued)

¹²⁷Xe
₅₄

| E^* | $2J^\pi$ | L | σ (τ ,n) | ε | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|--------------|---------------------------------|-------|-----------------------|---------------|----------------------|--------|---|--------------|--------------|--------------|-------------------------------|--------------|
| [keV] | | (d,n) | $\mu\text{b/sr}$ | (τ ,n) | Γ_{cm} | | E_{f}^* : $2J_{\text{f}}^\pi$: | 0.0 1^+ | 125 3^+ | 297 9^- | 309 $\langle 11^- \rangle$ | 321 3^+ |
| 976.07(3) | 1-5 ⁺ | | | | | | | 12(4) | | | | 88(4) |
| 980.13(22) | | | | | | | | 61(5) | | | | 39(6) |
| 1021.0(3) | | | | | | | | | | | | |
| 1071.5(3) | | | | | | | | | | | | |
| 1080.79(16) | 11 ⁺ | | | | | | | | | | | x |
| 1107.9(3) | | | | | | | | | | | | |
| 1119.2(3) | | | | | | | | | | | | |
| 0+X | | | | | | | | | | | | |
| 1196.85(4) | 1 ⁺ ,3 ⁺ | | | | | | | 71(1) | 8(2) | | | 13.2(4) |
| 1241.4(3) | | | | | | | | | | | | |
| 1283.11(22) | $\langle 11^+, 13^+ \rangle$ | | | | | | | | | | | |
| 1306.333(24) | 3 ⁺ | | | | | | | 40(1) | 21.7(3) | | | 15.2(3) |
| 1369.27(15) | $\langle 13^-, 15^- \rangle$ | | | | | | | | | | | |
| 1402.60(3) | $\langle 3 \rangle^+$ | | | | | | | 47(1) | | | | 17.6(6) |
| 1466.75(19) | $\langle 13^- - 17^- \rangle$ | | | | | | | | | | | |
| 1508.69(17) | $\langle 19^- \rangle$ | | | | | | | | | | | |
| 1534.628(22) | 3 ⁺ | | | | | | | 16.6(3) | 22.2(4) | | | 9.2(3) |
| 1541.16(18) | $\langle 13^+ \rangle$ | | | | | | | | | | | |
| 1558.25(6) | 1,3 | | | | | | | 27(3) | 9(3) | | | 51(3) |
| 1582.664(24) | 1 ⁺ ,3 ⁺ | | | | | | | 15.5(2) | 4.0(2) | | | 33.0(5) |
| 1584.01(20) | 1,3,5 ⁺ | | | | | | | 100 | | | | |
| 1611.96(8) | | | | | | | | | 25(4) | | | 75(4) |
| 1622.27(14) | $\langle 15^+ \rangle$ | | | | | | | | | | | |
| 1650.7(4) | | | | | | | | | | | | |
| 1666.4(5) | | | | | | | | | | | | |
| 1704.46(20) | $\langle 13^-, 17^- \rangle$ | | | | | | | | | | | |
| 1716.56(5) | 1,3 | | | | | | | 35(1) | 17(1) | | | 24(3) |
| 1741.34(8) | 1,3 | | | | | | | 20(3) | | | | |
| 1751.56(20) | 15 ⁺ | | | | | | | | | | | |
| 574.0+X | | | | | | | | | | | | |
| 1774.91(20) | 1,3 | | | | | | | 22(1) | 14(1) | | | 31(4) |
| 1806.46(4) | $\langle 1^+, 3 \rangle$ | | | | | | | 4 | 27(1) | | | 32(1) |
| 1831.01(4) | $\langle 1^+, 3 \rangle$ | 0 | 131 | 0.93 | | 79Al14 | | 3.7(3) | | | | 11.0(7) |
| 1894.81(9) | $\langle 1^+, 3 \rangle$ | | | | | | | 6(2) | 14(2) | | | |
| 1925.4(7) | | | | | | | | | | | | |
| 775.0+X | | | | | | | | | | | | |
| 1972.58(10) | 1,3 | | | | | | | 88(4) | | | | |
| 1973.57(21) | 3 | | | | | | | | | | | |
| 2016.4(4) | | | | | | | | | | | | |
| 2033.17(7) | 1,3 | | | | | | | | 20(3) | | | |
| 2104.5(3) | $\langle 15^- - 19^- \rangle$ | | | | | | | | | | | |
| 2170.5(4) | | | | | | | | | | | | |
| 2243.37(23) | $\langle 17^-, 21^- \rangle$ | | | | | | | | | | | |
| 2274.6(4) | 9 ⁺ -17 ⁺ | | | | | | | | | | | |
| 2306.6(7) | $\langle 15^- - 19^+ \rangle$ | | | | | | | | | | | |

(continued)

 $^{127}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | L (d,n) | σ (τ ,n) $\mu\text{b/sr}$ | ε (τ ,n) | $T_{1/2}$ or Γ_{cm} | Ref. | Branching ratios in percentage | | | | | |
|----------------|--------------------------------------|--------------|---|-------------------------------|--------------------------------------|--------|--------------------------------|-----------------------|-----------------------|-----------------------|---------------------------|-----------------------|
| | | | | | | | E_f^* : $2J_f^\pi$: | 0.0 1 ⁺ | 125 3 ⁺ | 297 9 ⁻ | 309 ⟨11 ⁻ ⟩ | 321 3 ⁺ |
| 2307.1(9) | | | | | | | | | | | | |
| 2312.1(7) | ⟨23 ⁻ ⟩ | | | | | | | | | | | |
| 2395.07(17) | ⟨15 ⁺ , 19 ⁺ ⟩ | | | | | | | | | | | |
| 1304.0+X | | | | | | | | | | | | |
| 2497.7(3) | 15 ⁺ , 19 ⁺ | | | | | | | | | | | |
| 2664.6(7) | | | | | | | | | | | | |
| 2665.2(4) | ⟨17-21⟩ | | | | | | | | | | | |
| 2716.8(7) | | | | | | | | | | | | |
| 2729.97(25) | | | | | 25(3) ns | | | | | | | |
| 2778.9(10) | | | | | | | | | | | | |
| 1676.0+X | | | | | | | | | | | | |
| 2968.7(6) | | | | | | | | | | | | |
| 2970(50) | ⟨1 ⁺ ⟩ | 0 | 118 | 0.78 | | 79Al14 | | | | | | |
| 3037.0 | | | | | | | | | | | | |
| 3052.4 | | | | | | | | | | | | |
| 3201.8(7) | ⟨27 ⁻ ⟩ | | | | | | | | | | | |
| 3275.8(6) | | | | | | | | | | | | |
| 3282.8(7) | | | | | | | | | | | | |
| 3402.8(8) | | | | | | | | | | | | |
| 3620.8(13) | | | | | | | | | | | | |
| 4088.8(15) | | | | | | | | | | | | |
| 4136.8(12) | ⟨31 ⁻ ⟩ | | | | | | | | | | | |
| 4411.8(15) | | | | | | | | | | | | |
| 4886.8(17) | | | | | | | | | | | | |
| 5098.8(16) | ⟨35 ⁻ ⟩ | | | | | | | | | | | |
| 5298.8(17) | | | | | | | | | | | | |
| 6122.8(19) | ⟨39 ⁻ ⟩ | | | | | | | | | | | |
| 6304.8(20) | | | | | | | | | | | | |
| 7199.8(21) | ⟨43 ⁻ ⟩ | | | | | | | | | | | |
| 7310.8(22) | | | | | | | | | | | | |
| 7352.8(22) | | | | | | | | | | | | |
| 7778.8(22) | | | | | | | | | | | | |
| 8335.8(24) | ⟨47 ⁻ ⟩ | | | | | | | | | | | |
| 8394.8(24) | | | | | | | | | | | | |
| 8813.8(25) | | | | | | | | | | | | |
| 9523(3) | ⟨51 ⁻ ⟩ | | | | | | | | | | | |
| | | | 79Al14 | 79Al14 | | Ref. | | | | | | |

Additional data on this isotope can be found in [93Wi19, 90Ma46, 90Ga02].

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [96Ki01]. Part 2

¹²⁷Xe
54

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|-------------------------------------|--------------------------------|-----------------------|-----------------------|-------------------------|-------|---------------------------|-------------------------|-------------------------|---------------------------|-------------------------|---------|
| | | $E_f^*:$ $2J_f^\pi:$ | 342 7 ⁺ | 375 5 ⁺ | 412.0 1 ⁺ | 419.6 | 510.0 ⟨3⟩ ⁺ | 530.3 7 ⁺ | 587.1 3 ⁺ | 645.9 ⟨9⟩ ⁺ | 711.6 7 ⁺ | 720.1 |
| 419.59(6) | 5 ⁻ -9 ⁻ | | 100 | | | | | | | | | |
| 530.31(4) | 7 ⁺ | | | 8(3) | | | | | | | | |
| 587.065(22) | 3 ⁺ | | | 0.85(4) | 1.21(2) | | | | | | | |
| 645.90(8) | ⟨9⟩ ⁺ | | 68(5) | | | | | | | | | |
| 711.61(3) | 7 ⁺ | | 9(1) | 10(1) | | | 9(3) | | | | | |
| 720.09(3) | | | | | 15(2) | | | | | | | |
| 804.75(20) | 5 ⁺ | | | 49(7) | | | | x | | | | |
| 846.0(3) | | | | | | 100 | | | | | | |
| 897.63(12) | ⟨9 ⁺ ⟩ | | | 94(28) | | | | 5.9(20) | | | | |
| 904.80(17) | 1 ⁺ -5 ⁺ | | | | | | 100 | | | | | |
| 931.070(24) | 3 ⁺ | | x | 13(2) | 4.0(1) | | 1.1(2) | | 4.8(2) | | | |
| 938.17(11) | ⟨11⟩ ⁺ | | 95(10) | | | | | | | 5(2) | | |
| 1021.0(3) | | | | | | | <92 | 100 | | | | |
| 1071.5(3) | | | | | | | | 100 | | | | |
| 1080.79(16) | 11 ⁺ | | | | | | | 88(27) | | | | |
| 1107.9(3) | | | | 100 | | | | | | | | |
| 1119.2(3) | | | | | | 100 | | | | | | |
| 1196.85(4) | 1 ⁺ ,3 ⁺ | | | | | | | | 8(2) | | | |
| 1241.4(3) | | | | | | 100 | | | | | | |
| 1283.11(22) | ⟨11 ⁺ ,13 ⁺ ⟩ | | | | | | | | | 82(26) | | |
| 1306.333(24) | 3 ⁺ | | 3.6(2) | 3.8(9) | 3.8(2) | | 0.8(2) | 1.5(2) | 6(2) | | 1(2) | |
| 1402.60(3) | ⟨3⟩ ⁺ | | | | 33.0(6) | | | | | | 2.2(6) | |
| 1534.628(22) | 3 ⁺ | | 2.3(1) | 8.8(1) | | | 3.3(1) | 0.04(1) | 1.0(1) | | 28.2(5) | 5.2(4) |
| 1558.25(6) | 1,3 | | | | 12(3) | | | | | | | |
| 1582.664(24) | 1 ⁺ ,3 ⁺ | | | 1.4(2) | 20.7(5) | | 6(2) | | 13.2(2) | | | 2.7(2) |
| 1716.56(5) | 1,3 | | | 12(1) | | | | | 6(1) | | | |
| 1741.34(8) | 1,3 | | | 80(10) | | | | | | | | |
| 1774.91(20) | 1,3 | | | | 21(2) | | | | 12(1) | | | |
| 1806.46(4) | ⟨1 ⁺ ,3⟩ | | | 5(1) | | | 6(1) | | 14(1) | | | 7(1) |
| 1831.01(4) | ⟨1 ⁺ ,3⟩ | | | 6(3) | 62(2) | | | | | | | 17.5(7) |
| 1894.81(9) | ⟨1 ⁺ ,3⟩ | | | 80(6) | | | | | | | | |
| 1972.58(10) | 1,3 | | | | | | | | 12(4) | | | |
| 1973.57(21) | 3 | | | | 100 | | | | | | | |
| 2033.17(7) | 1,3 | | | | | | | | 40(10) | | 40(10) | |

Energy levels and branching ratios [96Ki01]. Part 3

¹²⁷Xe
54

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|-------------------------------------|--------------------------------|-------|-----------------------------|----------------------------|-------------------------|----------------------------|-------------------------------|-----------------------------|--------|---------------------------|-----|
| | | $E_f^*:$ $2J_f^\pi:$ | 792.4 | 828.1 ⟨15 ⁻ ⟩ | 897.6 ⟨9 ⁺ ⟩ | 931.1 3 ⁺ | 938.2 ⟨11⟩ ⁺ | 960.1 ⟨9,13 ⁻ ⟩ | 976.1 1,3,5 ⁺ | 1021.0 | 1080.8 11 ⁺ | 0+X |
| 1080.79(16) | 11 ⁺ | | | | 12(4) | | | | | | | |
| 1283.11(22) | ⟨11 ⁺ ,13 ⁺ ⟩ | | | | | | 18(9) | | | | | |

(continued)

¹²⁷Xe
54

| E^* | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|--------------|-------------------------------|--------------------------------|-------|------------------------|-----------------------|--------|------------------------|---------------------------|-------------|--------|--------|-----|
| [keV] | | $E_f^*:$ $2J_f^\pi:$ | 792.4 | 828.1 | 897.6 | 931.1 | 938.2 | 960.1 | 976.1 | 1021.0 | 1080.8 | 0+X |
| | | | | $\langle 15^- \rangle$ | $\langle 9^+ \rangle$ | 3^+ | $\langle 11 \rangle^+$ | $\langle 9, 13^- \rangle$ | $1, 3, 5^+$ | | 11^+ | |
| 1306.333(24) | 3^+ | | | | | | | | 1.4(2) | | | |
| 1369.27(15) | $\langle 13^-, 15^- \rangle$ | | 68(4) | 32(4) | | | | | | | | |
| 1466.75(19) | $\langle 13^- - 17^- \rangle$ | | 32(2) | 68(15) | | | | | | | | |
| 1508.69(17) | $\langle 19^- \rangle$ | | | 100 | | | | | | | | |
| 1534.628(22) | 3^+ | | | | | 3.2(1) | | | | | | |
| 1541.16(18) | $\langle 13^+ \rangle$ | | | | 100 | | | | | | | |
| 1582.664(24) | $1^+, 3^+$ | | | | | | | | 3.8(2) | | | |
| 1622.27(14) | $\langle 15^+ \rangle$ | | | | | | 100 | | | | | |
| 1650.7(4) | | | | | | | | | | 69(9) | 31(13) | |
| 1666.4(5) | | | 100 | | | | | | | | | |
| 1704.46(20) | $\langle 13^-, 17^- \rangle$ | | | 21(4) | | | | 70(6) | | | | |
| 1716.56(5) | $1, 3$ | | | | | 6(1) | | | | | | |
| 1751.56(20) | 15^+ | | | | | | | | | | 100 | |
| 1806.46(4) | $\langle 1^+, 3 \rangle$ | | | | | | | | 6(1) | | | |
| 775.0+X | | | | | | | | | | | | x |
| 2170.5(4) | | | | 100 | | | | | | | | |

Energy levels and branching ratios [96Ki01]. Part 4

¹²⁷Xe
54

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|------------------------------|--------------------------------|--------|--------|--------|----------------------------------|----------------------------------|----------------------------------|------------------|---------|---------|------|
| | | $E_f^*:$ $2J_f^\pi:$ | 1283.1 | 1369.3 | 1466.7 | 1508.7 $\langle 19^- \rangle$ | 1541.2 $\langle 13^+ \rangle$ | 1622.3 $\langle 15^+ \rangle$ | 1751.6 15^+ | 574.0+X | 775.0+X | 2016 |
| 1622.27(14) | $\langle 15^+ \rangle$ | | x | | | | | | | | | |
| 1704.46(20) | $\langle 13^-, 17^- \rangle$ | | | 8(4) | | | | | | | | |
| 1925.4(7) | | | | 100 | <80 | | | | | | | |
| 775.0+X | | | | | | | | | | x | | |
| 2016.4(4) | | 100 | | | | | | x | | | | |
| 2104.5(3) | $\langle 15^-, 19^- \rangle$ | | | 17(6) | 35(10) | 48(15) | | | | | | |
| 2243.37(23) | $\langle 17^-, 21^- \rangle$ | | | | 34(5) | 66(5) | | | | | | |
| 2274.6(4) | $9^+ - 17^+$ | | | | | | 100 | | | | | |
| 2306.6(7) | $\langle 15^-, 19^+ \rangle$ | | | | | x | | | x | | | |
| 2307.1(9) | | | | | | | | x | | | | |
| 2312.1(7) | $\langle 23^- \rangle$ | | | | | 100 | | | | | | |
| 2395.07(17) | $\langle 15^+, 19^+ \rangle$ | | | | | | | 100 | | | | |
| 1304.0+X | | | | | | | | | | | x | |
| 2497.7(3) | $15^+, 19^+$ | | | | | | | | 100 | | | |
| 2665.2(4) | $\langle 17-21 \rangle$ | | | | | 100 | | | | | | |
| 2716.8(7) | | | | | | | | x | x | | | |
| 1676.0+X | | | | | | | | | | | x | |
| 2968.7(6) | | | | | | | | | | | | x |

Energy levels and branching ratios [96Ki01]. Part 5

 $^{127}_{54}\text{Xe}$

| E^* | $2J^\pi$ | $E_f^*:$ | 2170 | 2243 | 2307 | Branching ratios in percentage | | | | | | |
|-------------|------------------------|-------------|------|------|------|--------------------------------|------------------------|------|--------|--------------|------|------|
| [keV] | | $2J_f^\pi:$ | | | | 2307 | 2312 | 2395 | 1304+X | 2498 | 2665 | 2717 |
| | | | | | | | $\langle 23^- \rangle$ | | | $15^+, 19^+$ | | |
| 2664.6(7) | | | x | | x | | | | | | | |
| 2729.97(25) | | | | 100 | | | | | | | | |
| 2778.9(10) | | | | | | x | | | | | | |
| 1676.0+X | | | | | | | | | x | | | |
| 2968.7(6) | | | | | | | | | | | | x |
| 3037.0 | | | | | | | 100 | | | | | |
| 3052.4 | | | | 100 | | | | | | | | |
| 3201.8(7) | $\langle 27^- \rangle$ | | | | | | 100 | | | | | |
| 3275.8(6) | | | | | | | | x | | x | x | |
| 3282.8(7) | | | | | | | | | | x | | |

Energy levels and branching ratios [96Ki01]. Part 6

 $^{127}_{54}\text{Xe}$

| E^* | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|------------|------------------------|--------------------------------|------|------|--------------------------------|------|------|------|------|------|--------------------------------|------|
| [keV] | | $E_f^*:$ $2J_f^\pi:$ | 2779 | 2969 | 3202 $\langle 27^- \rangle$ | 3276 | 3283 | 3403 | 3621 | 4089 | 4137 $\langle 31^- \rangle$ | 4412 |
| 3275.8(6) | | | | x | | | | | | | | |
| 3282.8(7) | | | x | x | | | | | | | | |
| 3402.8(8) | | | | x | | x | x | | | | | |
| 3620.8(13) | | | | | | | | x | | | | |
| 4088.8(15) | | | | | | | | | x | | | |
| 4136.8(12) | $\langle 31^- \rangle$ | | | | x | | | | | | | |
| 4411.8(15) | | | | | | | | | x | x | | |
| 4886.8(17) | | | | | | | | | | | | x |
| 5098.8(16) | $\langle 35^- \rangle$ | | | | | | | | | | x | |
| 5298.8(17) | | | | | | | | | | | | x |

Energy levels and branching ratios [96Ki01]. Part 7

 $^{127}_{54}\text{Xe}$

| E^* | $2J^\pi$ | | Branching ratios in percentage | | | | | | | | | |
|------------|------------------------|-------------------------|--------------------------------|--------------------------------|------|--------------------------------|------|--------------------------------|------|------|------|--------------------------------|
| [keV] | | $E_f^*:$ $2J_f^\pi:$ | 4887 | 5099 $\langle 35^- \rangle$ | 5299 | 6123 $\langle 39^- \rangle$ | 6305 | 7200 $\langle 43^- \rangle$ | 7311 | 7353 | 7779 | 8336 $\langle 47^- \rangle$ |
| 5298.8(17) | | | x | | | | | | | | | |
| 6122.8(19) | $\langle 39^- \rangle$ | | | x | | | | | | | | |
| 6304.8(20) | | | | | x | | | | | | | |
| 7199.8(21) | $\langle 43^- \rangle$ | | | | | x | | | | | | |
| 7310.8(22) | | | | | | | x | | | | | |
| 7352.8(22) | | | | | | | x | | | | | |
| 7778.8(22) | | | | | | | | | x | x | | |

(continued)

¹²⁷Xe
₅₄

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|------------------------|--------------------------------|------|--------------------------------|------|--------------------------------|------|--------------------------------|------|------|------|--------------------------------|
| | | $E_f^*:$ $2J_f^\pi:$ | 4887 | 5099 $\langle 35^- \rangle$ | 5299 | 6123 $\langle 39^- \rangle$ | 6305 | 7200 $\langle 43^- \rangle$ | 7311 | 7353 | 7779 | 8336 $\langle 47^- \rangle$ |
| 8335.8(24) | $\langle 47^- \rangle$ | | | | | | | x | | | | |
| 8394.8(24) | | | | | | | | x | | | | |
| 8813.8(25) | | | | | | | | | | | x | |
| 9523(3) | $\langle 51^- \rangle$ | | | | | | | | | | | x |

Energy levels and branching ratios [01Ka61].

¹²⁸Xe
₅₄

| E^* | J^π | L | σ (τ ,n) | ε | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|--------------|--------------------------------|--------------|-----------------------|---------------|----------------------|--------|--|-----------------------|-------------------------|-------------------------|------------------------|------------------------|
| [keV] | | (τ ,n) | $\mu\text{b/sr}$ | (τ ,n) | Γ_{cm} | | E^*_f : J^π_f : | 0.0 0 ⁺ | 442.9 2 ⁺ | 969.5 2 ⁺ | 1033 4 ⁺ | 1430 3 ⁺ |
| 0.0 | 0 ⁺ | 0 | 277 | 2.50 | Stable | 79Al14 | | | | | | |
| 442.911(9) | 2 ⁺ | | | | 21(1) ps | | | 100 | | | | |
| 969.475(12) | 2 ⁺ | | | | 5.7(5) ps | | | 21.1(4) | 79(2) | | | |
| 1033.147(19) | 4 ⁺ | | | | 3.5(3) ps | | | | 100 | | | |
| 1429.56(3) | 3 ⁺ | | | | <4 ns | | | | 44(1) | 47(1) | 8.6(2) | |
| 1582.975(16) | 0 ⁺ | | | | | | | | 61(3) | 39(2) | | |
| 1603.50(15) | 4 ⁺ | | | | <6 ns | | | | 16.9(5) | 47(1) | 36(1) | |
| 1737.26(18) | 6 ⁺ | | | | 1.1(1) ps | | | | | | 100 | |
| 1877.32(8) | 0 ⁺ | 0 | 93 | 0.71 | | 79Al14 | | | 100 | | | |
| 1996.74(19) | 5 ⁺ | | | | | | | | | | 31(1) | 60(1) |
| 1999.645(21) | 2 ⁺ | | | | | | | 1.6(5) | 26(2) | 3.5(2) | 68(5) | x |
| 2023.06(20) | 3 ⁺ ,4 ⁺ | | | | | | | | | 41(1) | 29(1) | 24.1(7) |
| 2127.06(3) | 1 ⁺ ,2 ⁺ | | | | 0.12(5) ps | | | | 94(2) | 5.9(8) | | |
| 2138.68(20) | $\langle 3 \rangle^-$ | | | | | 06Mu04 | | | 100 | | x | |
| 2165.9(4) | $\langle 4 \rangle$ | | | | | | | | | | 100 | |
| 2229.23(21) | $\langle 5 \rangle^-$ | | | | <6 ns | | | | | | 83(2) | |
| 2252.89(6) | 1,2 | | | | | | | | 42(3) | 58(8) | | |
| 2272.85(3) | 2 ⁺ | | | | | | | | 4.7(6) | 86(3) | 9(1) | |
| 2280.92(20) | 6 ⁺ | | | | <4 ns | | | | | | | |
| 2305.7(3) | $\langle 3 \rangle$ | | | | | | | | | x | x | 100 |
| 2336.05(22) | $\langle 4 \rangle$ | | | | | | | | | | 20 | 45(1) |
| 2361.6(3) | $\langle 3 \rangle$ | | | | | | | | | 84(3) | 16(4) | |
| 2361.80(5) | 1,2 ⁺ | | | | | | | 48(4) | 38(2) | 14(1) | | |
| 2388.81(24) | | | | | | | | | | x | 45(3) | x |
| 2421.08(4) | | | | | | | | | 100 | | | |
| 2430.69(4) | 1,2 ⁺ | | | | | | | 9.6(9) | 43(2) | 47(3) | | |
| 2438.8(3) | 5 ⁺ | | | | | | | | | | | 60(3) |
| 2443.92(17) | | | | | | | | | 10(5) | 90(20) | | |
| 2444.0(5) | | | | | | | | | | | | x |
| 2462.72(22) | $\langle 4 \rangle$ | | | | | | | | | | 43(2) | 8(1) |
| 2469.66(23) | 5 ⁻ | | | | | | | | | | 100 | |
| 2469.9(6) | | | | | | | | | | | | |

(continued)

¹²⁸Xe
54

| E^* | J^π | L | σ (τ, n) | ε | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|-------------|---------------------------|---------------|------------------------|---------------|----------------------|--------|--|-----------------------|-------------------------|-------------------------|------------------------|------------------------|
| [keV] | | (τ, n) | $\mu\text{b/sr}$ | (τ, n) | Γ_{cm} | | $\begin{smallmatrix} E^*_f: \\ J^\pi_f: \end{smallmatrix}$ | 0.0 0 ⁺ | 442.9 2 ⁺ | 969.5 2 ⁺ | 1033 4 ⁺ | 1430 3 ⁺ |
| 2482.51(4) | $\langle 2 \rangle$ | | | | | | | 3.4(3) | 37(3) | 60(2) | | |
| 2500.91(24) | 6 [−] | | | | <3 ns | | | | | | | |
| 2509.2(4) | $\langle 3 \rangle$ | | | | | | | | 100 | | x | |
| 2510.71(4) | 2 ⁺ | | | | | | 6.5(5) | 7(1) | 36(3) | | 18(3) | 33(2) |
| 2512.9(5) | 8 ⁺ | | | | 0.55(6) ps | | | | | | | |
| 2521.37(6) | | | | | | | | 81(7) | 10(3) | | 9(3) | |
| 2547.1(4) | 6 ⁺ | | | | | | | | | | | |
| 2550.67(18) | | | | | | | 28(9) | 72(18) | | | | |
| 2553.7(5) | $\langle 5 \rangle$ | | | | | | | | | | 100 | |
| 2564.78(16) | | | | | | | 67(9) | 33(17) | | | | |
| 2583.22(25) | 7 [−] | | | | | | | | | | | |
| 2591.57(4) | 1,2 ⁺ | | | | | | 9.0(8) | 76(5) | | | | 15(2) |
| 2595.8(3) | $\langle 4 \rangle$ | | | | | | | | | | | |
| 2598.58(4) | 0 ⁺ | | | | | | | 54(4) | 46(1) | | | |
| 2601.2(3) | $\langle 5 \rangle$ | | | | | | | | | | 79(3) | |
| 2608.7(4) | | | | | | | | | x | | | |
| 2632.99(4) | 2 ⁺ | 2 | 32 | 1.17 | | 79Al14 | 6.3(6) | 57(4) | 25.0(14) | 4.7(8) | 7.4(11) | |
| 2643.1(4) | | | | | | | | | | | | |
| 2645.84(24) | 4 | | | | | | | | | | 44(2) | |
| 2687.5(5) | | | | | | | | | | | x | |
| 2693.4(4) | | | | | | | | | | | x | |
| 2698.0(3) | 6 [−] | | | | | | | | | | | |
| 2718.50(6) | | | | | | | 4.3(14) | 78(5) | 17(5) | | | |
| 2720.0(4) | 6 [−] | | | | <5 ns | | | | | | | |
| 2726.22(15) | | | | | | | | 80(14) | 20(14) | | | |
| 2730.6(4) | 7 ⁺ | | | | | | | | | | | |
| 2734.1(4) | | | | | | | | | | | | |
| 2735.5(6) | | | | | | | | | | | | |
| 2736.7(6) | | | | | | | | | | | | |
| 2747.0(3) | | | | | | | | | | | | |
| 2752.0(6) | | | | | | | | | | | | |
| 2756.4(3) | $\langle 2^+-4^+ \rangle$ | | | | | | | x | | | 100 | |
| 2777.0(4) | | | | | | | | | | | 71(6) | |
| 2779.1(5) | | | | | | | | | 100 | | | |
| 2787.3(4) | 8 [−] | | | | 83(2) ns | | | | | | | |
| 2792.0(4) | | | | | | | | | | | | x |
| 2794.4(5) | | | | | | | | | | | 100 | |
| 2807.00(17) | | | | | | | | 75(19) | 25(6) | | | |
| 2819.9(3) | $\langle 6 \rangle$ | | | | | | | | | | | |
| 2820.0(4) | | | | | | | | | | | | |
| 2822.7(4) | 5 [−] ,6 | | | | | | | | | | | |
| 2823.3(4) | | | | | | | 27(9) | 73(24) | | | | |
| 2827.9(5) | | | | | | | | | | | 100 | |
| 2837.59(4) | 2 ⁺ | | | | | | 12.4(10) | 51(3) | 15(2) | | 13(2) | 8(2) |
| 2839.8(6) | | | | | | | | | | | | |

(continued)

¹²⁸Xe
54

| E^* | J^π | L | σ (τ ,n) | ε | $T_{1/2}$ or Ref. | Branching ratios in percentage | | | | | | |
|-------------|-----------------------------|--------------|-----------------------|---------------|----------------------|--------------------------------|--------------|----------------|----------------|---------------|---------------|---|
| [keV] | | (τ ,n) | $\mu\text{b/sr}$ | (τ ,n) | Γ_{cm} | E^*_f : J^π_f : | 0.0 0^+ | 442.9 2^+ | 969.5 2^+ | 1033 4^+ | 1430 3^+ | |
| 2842.3(3) | $\langle 5 \rangle^-$ | | | | | | | | | x | | |
| 2846.4(5) | | | | | | | | | x | | | |
| 2851.5(5) | | | | | | | | | | x | | |
| 2859.51(5) | | | | | | | 14.2(10) | 86(5) | | | | |
| 2864.6(4) | | | | | | | | | | | | |
| 2873.8(5) | | | | | | | | | | | x | |
| 2876.7(5) | | | | | | | 100 | | | | | |
| 2877.4(5) | | | | | | | | | x | | | |
| 2881.4(6) | | | | | | | | | | | | |
| 2882.3(5) | | | | | | | | | | | x | |
| 2892.1(5) | | | | | | | | | | | | x |
| 2908.7(4) | | | | | | | | | | | x | |
| 2920.0(6) | | | | | | | | | | | | |
| 2922.2(6) | | | | | | | | | | | | |
| 2937.81(11) | | | | | | | | 93(8) | 7(3) | | | |
| 2941.9(6) | $7^+ - 9^+$ | | | | $<4 \text{ ns}$ | | | | | | | |
| 2942.1(7) | | | | | | | | | | | | |
| 2943.0(4) | | | | | | | | | | x | | |
| 2944.24(24) | | | | | | | | | 7(3) | | | |
| 2954.9(4) | $\langle 6^+ - 8^+ \rangle$ | | | | | | | | | | | |
| 2974.3(4) | | | | | | | | | | | | |
| 2980.3(5) | | | | | | | | | | 100 | | |
| 2981.3(5) | $\langle 7 \rangle$ | | | | | | | | | | x | |
| 2985.4(4) | | | | | | | | | | | | |
| 2997.9(6) | | | | | | | | | | | | |
| 3007.7(5) | 8^- | | | | | | | x | | | | |
| 3013.2(5) | | | | | | | | x | | | | |
| 3016.2(5) | | | | | | | | | | 100 | | |
| 3026.2(4) | | | | | | | | | | x | | |
| 3038.0(6) | | | | | | | | | | | | |
| 3042.8(4) | | | | | | | | | | | x | |
| 3050.8(4)* | | | | | | | | | | | | |
| 3060.31(16) | | | | | | | | 3(1) | 32(6) | 65(13) | | |
| 3068.6(5) | | | | | | | | | | | | |
| 3075.2(6) | | | | | | | | | | | | |
| 3077.6(6) | $\langle 8,9 \rangle^-$ | | | | | | | | | | | |
| 3079.9(4) | | | | | | | | | | | | |
| 3084.5(4) | | | | | | | | | | | | |
| 3099.59(6) | | | | | | | 4.1(14) | 41(7) | 55(14) | | | |
| 3104.9(3) | | | | | | | 71(6) | 29(14) | | | | |
| 3110.51(8) | | | | | | | 0.3(2) | 31(3) | 68(5) | | | |
| 3113.4(4) | | | | | | | | | | | | |
| 3115.4(7) | | | | | | | | | | | | |
| 3133.3(6) | | | | | | | | | | | | |
| 3182.3(5) | | | | | | | | | | | | |

(continued)

¹²⁸Xe
54

| E^* | J^π | L | σ (τ ,n) | ε | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|-------------|------------------------|--------------|-----------------------|---------------|----------------------|--------|--|-----------------------|-------------------------|-------------------------|------------------------|------------------------|
| [keV] | | (τ ,n) | μ b/sr | (τ ,n) | Γ_{cm} | | E_{f}^* : J_{f}^π : | 0.0 0 ⁺ | 442.9 2 ⁺ | 969.5 2 ⁺ | 1033 4 ⁺ | 1430 3 ⁺ |
| 3186.7(6) | | | | | | | | | | | | |
| 3195.7(3) | | | | | | | | | | | x | |
| 3196.8(7) | 10 ⁺ | | | | <4 ns | | | | | | | |
| 3199.5(6) | | | | | | | | | | | | |
| 3204.1(6) | | | | | | | | | | | | |
| 3207.7(4) | 9 ⁻ | | | | | | | | | | | |
| 3214.3(8) | X ⁺ | | | | | | | | | | | |
| 3215.6(5) | | | | | | | | | | | | |
| 3224.7(4) | | | | | | | | | | x | | |
| 3237.1(6) | | | | | | | | | | | | |
| 3237.6(6) | | | | | | | | | | | | |
| 3244.0(6) | | | | | | | | | | | | |
| 3250.4(5) | | | | | | | | | | | | |
| 3256.3(6) | | | | | | | | | | | | |
| 3259.5(6) | | | | | | | | | | | | |
| 3292.4(7) | | | | | | | | | | | | |
| 3297.6(7) | | | | | | | | | | | | |
| 3298.8(4) | | | | | | | | | | | | |
| 3320.6(4) | | | | | | | | | | | | |
| 3324.0(7) | | | | | | | | | | | | |
| 3324.6(6) | | | | | | | | | | | | |
| 3353.4(7) | | | | | | | | | | | | |
| 3364.6(7) | 10 ⁺ | | | | 0.9(3) ps | | | | | | | |
| 3364.9(6) | | | | | | | | | | | | |
| 3367.0(6) | | | | | | | | | | | | |
| 3376.5(6) | | | | | | | | | | | | |
| 3402.9(5) | | | | | | | | | | | x | |
| 3406.65(19) | | | | | | | | 53(13) | 47(20) | | | |
| 3417.1(6) | | | | | | | | | | | | |
| 3450.4(5) | | | | | | | | | | | x | |
| 3455.0(6) | | | | | | | | | | | | |
| 3530(120) | 3 ⁻ | 3 | 43 | 2.00 | | 79Al14 | | | | | | |
| 3533.2(5) | | | | | | | | | | | x | |
| 3533.6(7) | 9 ⁺ | | | | | | | | | | | |
| 3541.9(6) | | | | | | | | | | | | |
| 3587.5(5) | | | | | | | | | | x | | |
| 3590.5(7) | | | | | | | | | | | | |
| 3594.0(7) | $\langle 10^- \rangle$ | | | | | | | | | | | |
| 3596.2(6) | | | | | | | | | | | | |
| 3596.9(8) | | | | | | | | | | | | |
| 3624.2(5) | | | | | | | | | | | x | |
| 3636.8(5) | | | | | | | | | | | x | |
| 3685.4(9) | | | | | | | | | | | | |
| 3694.2(6) | | | | | | | | | | | | |
| 3707.7(7)* | $\langle 10^- \rangle$ | | | | | | | | | | | |

(continued)

¹²⁸Xe
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| E^* | J^π | L | σ (τ ,n) | ε | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|-------------|------------------------|--------------|-----------------------|---------------|----------------------|--------|--|-----------------------|-------------------------|-------------------------|------------------------|------------------------|
| [keV] | | (τ ,n) | $\mu\text{b/sr}$ | (τ ,n) | Γ_{cm} | | E_{f}^* : J_{f}^π : | 0.0 0 ⁺ | 442.9 2 ⁺ | 969.5 2 ⁺ | 1033 4 ⁺ | 1430 3 ⁺ |
| 3751.0(9) | | | | | | | | | | | | |
| 3809.5(8) | 12 ⁺ | | | | | | | | | | | |
| 3863.3(6) | | | | | | | | | | | | |
| 3883 | 11 | | | | | | | | | | | |
| 3884 | 11,12 | | | | | | | | | | | |
| 3991 | 11,12 | | | | | | | | | | | |
| 4006.0(7) | | | | | | | | | | | | |
| 4014 | 10 | | | | | | | | | | | |
| 4055.8(8) | | | | | | | | | | | | |
| 4068 | 11,12 | | | | | | | | | | | |
| 4151.2(7) | | | | | | | | | | | | |
| 4251 | 12 | | | | | | | | | | | |
| 4445.4(9)* | $\langle 12^- \rangle$ | | | | | | | | | | | |
| 4618.2(9)* | 14 ⁺ | | | | | | | | | | | |
| 5220.9(10)* | $\langle 14^- \rangle$ | | | | | | | | | | | |
| 5573.4(10)* | $\langle 16^+ \rangle$ | | | | | | | | | | | |
| 6115.9* | 16 [−] | | | | | 03Or04 | | | | | | |
| 6603.1* | 18 ⁺ | | | | | 03Or04 | | | | | | |
| 7708.0* | 20 ⁺ | | | | | 03Or04 | | | | | | |
| 8889.9* | 22 ⁺ | | | | | 03Or04 | | | | | | |
| | | | 79Al14 | 79Al14 | | Ref. | | | | | | |

Additional data on this isotope can be found in [03Or04, 97Wi18, 96Ne04].

Abundance: 1.910(22) %.* Levels of the ground-state band and negative parity band built on 2499.8 keV state ($J^\pi = 6^-$) [03Or04].

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [01Ka61]. Part 2

¹²⁸Xe
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| E^* | J^π | Branching ratios in percentage | | | | | | | | | |
|--------------|---------------------------------|--------------------------------|------------------------|------------------------|------------------------|--------------------------|---|----------------------------|---------------|----------------------------|--------------------------|
| [keV] | | E_f^* : J_f^π : | 1583 0 ⁺ | 1603 4 ⁺ | 1737 6 ⁺ | 1996.7 5 ⁺ | 2023.1 3 ⁺ , 4 ⁺ | 2138.7 (3) ⁻ | 2165.9 (4) | 2229.2 (5) ⁻ | 2272.8 2 ⁺ |
| 1996.74(19) | 5 ⁺ | | | 8.0(5) | 1.2(1) | | | | | | |
| 1999.645(21) | 2 ⁺ | | x | | | | | | | | |
| 2023.06(20) | 3 ⁺ , 4 ⁺ | | | 6.0(6) | | | | | | | |
| 2229.23(21) | (5) ⁻ | | | 12.6(4) | 4.2(4) | | | | | | |
| 2280.92(20) | 6 ⁺ | | | 27(1) | 72.8(17) | | | | | | |
| 2336.05(22) | (4) | | | 27 | | 8.7(11) | | | | | |
| 2361.6(3) | (3) | | | | | | x | | | | |
| 2388.81(24) | | | | 55(3) | | | | | x | | |
| 2438.8(3) | 5 ⁺ | | | 20(2) | | 20(2) | | | | | |
| 2462.72(22) | (4) | | | | | | | 49(1) | | | |

(continued)

 $^{128}_{54}\text{Xe}$

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | |
|----------------|-----------------------------|--------------------------------|---------------|---------------|---------------|-----------------|----------------------|---------------------------------|-------------------------------|---------------------------------|-----------------|
| | | $E_f^*:$ $J_f^\pi:$ | 1583 0^+ | 1603 4^+ | 1737 6^+ | 1996.7 5^+ | 2023.1 $3^+, 4^+$ | 2138.7 $\langle 3 \rangle^-$ | 2165.9 $\langle 4 \rangle$ | 2229.2 $\langle 5 \rangle^-$ | 2272.8 2^+ |
| 2469.9(6) | | | | | 100 | | | | | | |
| 2500.91(24) | 6^- | | | | | 32(1) | | | | 68(2) | |
| 2512.9(5) | 8^+ | | | | 100 | | | | | | |
| 2547.1(4) | 6^+ | | | x | 100 | | | | | | |
| 2583.22(25) | 7^- | | | | 83(4) | | | | | 17(2) | |
| 2595.8(3) | $\langle 4 \rangle$ | | | 22(2) | | | 63(3) | 15(2) | | x | |
| 2601.2(3) | $\langle 5 \rangle$ | | | | 21(2) | | | | | | |
| 2608.7(4) | | | | 100 | | | | | | | |
| 2643.1(4) | | | | x | | x | | | | | |
| 2645.84(24) | 4 | | | 21(2) | 8(4) | | | | | | |
| 2693.4(4) | | | | x | | | | | | | |
| 2698.0(3) | 6^- | | | | | 39(4) | | | | 38(3) | |
| 2720.0(4) | 6^- | | | | | | | | | 100 | |
| 2730.6(4) | 7^+ | | | | | 100 | | | | | |
| 2734.1(4) | | | | | 49(8) | 51(6) | | | | | |
| 2735.5(6) | | | | x | | | | | | | |
| 2736.7(6) | | | | 100 | | | | | | | |
| 2747.0(3) | | | | | | | x | | | 33(2) | |
| 2752.0(6) | | | | | 100 | | | | | | |
| 2756.4(3) | $\langle 2^+ - 4^+ \rangle$ | | | | | | | x | | | |
| 2777.0(4) | | | | 29(14) | | | | | | | |
| 2819.9(3) | $\langle 6 \rangle$ | | | | 65(5) | | | | | | |
| 2820.0(4) | | | | | | | | x | | | |
| 2842.3(3) | $\langle 5 \rangle^-$ | | | | x | | | | | | |
| 2864.6(4) | | | | x | | | | | | | |
| 2881.4(6) | | | | | 100 | | | | | | |
| 2920.0(6) | | | | | | | | | | x | |
| 2922.2(6) | | | | | 100 | | | | | | |
| 2943.0(4) | | | | | | | | x | | | |
| 2944.24(24) | | | | | 26(3) | 16(8) | | | | | |
| 2985.4(4) | $\langle 7 \rangle$ | | | | x | | | | | | |
| 2997.9(6) | | | | | 100 | | | | | | |
| 3026.2(4) | | | | | x | | | | | | |
| 3042.8(4) | | | | | | x | | | | | |
| 3068.6(5) | | | | | | | | | | x | |
| 3077.6(6) | | | | | | | | x | | | |
| 3079.9(4) | | | | | x | | | | | | |
| 3113.4(4) | | | | | x | | | x | | | |
| 3186.7(6) | | | | | 100 | | | | | | |
| 3195.7(3) | | | | x | | | | | | | |
| 3204.1(6) | | | | | | | | | | 100 | |
| 3224.7(4) | | | | | | | | | | | x |
| 3237.1(6) | | | | | | x | | | | | |
| 3244.0(6) | | | | | | | | | | x | |
| 3250.4(5) | | | | | x | | | | | | |

(continued)

 $^{128}_{54}\text{Xe}$

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | |
|----------------|---------|--------------------------------|------------------------|------------------------|------------------------|--------------------------|--|---------------------------------|-------------------------------|---------------------------------|--------------------------|
| | | $E^*_f:$ $J^\pi_f:$ | 1583 0 ⁺ | 1603 4 ⁺ | 1737 6 ⁺ | 1996.7 5 ⁺ | 2023.1 3 ⁺ ,4 ⁺ | 2138.7 $\langle 3 \rangle^-$ | 2165.9 $\langle 4 \rangle$ | 2229.2 $\langle 5 \rangle^-$ | 2272.8 2 ⁺ |
| 3259.5(6) | | | | | x | | | | | | |
| 3298.8(4) | | | | | | | | | | x | |
| 3367.0(6) | | | | | | | | x | | | |
| 3694.2(6) | | | | | x | | | | | | |

Energy levels and branching ratios [01Ka61]. Part 3

 $^{128}_{54}\text{Xe}$

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | | |
|----------------|--------------------------------|--------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|-------------------------------|--------------------------|--------|------------------------|------------------------|------------------------|
| | | $E^*_f:$ $J^\pi_f:$ | 2280.9 6 ⁺ | 2336.0 $\langle 4 \rangle$ | 2361.6 $\langle 3 \rangle$ | 2438.8 5 ⁺ | 2462.7 $\langle 4 \rangle$ | 2469.7 5 ⁻ | 2469.9 | 2501 6 ⁻ | 2513 8 ⁺ | 2583 7 ⁻ |
| 2547.1(4) | 6 ⁺ | | x | | | | | | | | | |
| 2583.22(25) | 7 ⁻ | | <2 | | | | | | | | | |
| 2601.2(3) | $\langle 5 \rangle$ | | x | | | | | | | | | |
| 2645.84(24) | 4 | | | 28(3) | | | | | | | | |
| 2698.0(3) | 6 ⁻ | | | 18 | | | | 5 | | | | |
| 2720.0(4) | 6 ⁻ | | | | | | | <6 | | | | |
| 2730.6(4) | 7 ⁺ | | <8 | | | | | | | | | |
| 2747.0(3) | | | | | 33 | | | 33 | | | | |
| 2787.3(4) | 8 ⁻ | | | | | | | | | 56(7) | | 44(9) |
| 2792.0(4) | | | | | | x | | | | | | |
| 2819.9(3) | $\langle 6 \rangle$ | | 35(4) | | | x | | | x | | | |
| 2820.0(4) | | | | x | | | | | | | | |
| 2822.7(4) | 5 ⁻ ,6 | | | | | | | x | | | | x |
| 2839.8(6) | | | | | 100 | | | | | | | |
| 2842.3(3) | $\langle 5 \rangle^-$ | | x | | | | | | | | | |
| 2864.6(4) | | | x | | | | | | | | | |
| 2908.7(4) | | | | | | | | | | x | | |
| 2941.9(6) | | | x | | | | | | | | | |
| 2942.1(7) | 7 ⁺ -9 ⁺ | | | | | | | | | | 100 | |
| 2944.24(24) | | | | | | 30(3) | | | | | | |
| 2954.9(4) | | | | | | | x | | | x | | |
| 2974.3(4) | $\langle 6^+-8^+ \rangle$ | | x | | | | | | | | 100 | |
| 2985.4(4) | $\langle 7 \rangle$ | | | | | | x | | | x | | |
| 3038.0(6) | | | | | | | | | | x | | |
| 3050.8(4)* | 8 ⁻ | | | | | | | | | 78(5) | | 22(2) |
| 3075.2(6) | | | 100 | | | | | | | | | |
| 3079.9(4) | | | x | | | x | | | | | | |
| 3084.5(4) | | | | | | | | | | x | | |
| 3113.4(4) | | | | | | | x | | | | | |
| 3115.4(7) | $\langle 8,9 \rangle^-$ | | | | | | | | | | | 76(6) |
| 3133.3(6) | | | | | | | | | | | | 100 |
| 3182.3(5) | | | | | | | | | | x | | |

(continued)

¹²⁸Xe
54

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | | |
|----------------|-----------------|--------------------------------|--------------------------|---------------|---------------|--------------------------|---------------|--------------------------|--------|------------------------|------------------------|------------------------|
| | | $E_f^*:$ $J_f^\pi:$ | 2280.9 6 ⁺ | 2336.0 ⟨4⟩ | 2361.6 ⟨3⟩ | 2438.8 5 ⁺ | 2462.7 ⟨4⟩ | 2469.7 5 ⁻ | 2469.9 | 2501 6 ⁻ | 2513 8 ⁺ | 2583 7 ⁻ |
| 3195.7(3) | 10 ⁺ | | x | | | | | | | | | |
| 3196.8(7) | | | | | | | | | | | 100 | |
| 3199.5(6) | 9 ⁻ | | x | | | | | | | | | |
| 3207.7(4) | | | | | | | | | | | | 100 |
| 3215.6(5) | 10 ⁺ | | | | | | | x | | | | |
| 3237.6(6) | | | | | | | | x | | | | |
| 3256.3(6) | | | | | | | | | | x | | |
| 3297.6(7) | | | | | | | | | | | 100 | |
| 3298.8(4) | | | | | | | | | | x | | x |
| 3320.6(4) | | | x | | | | | | | | | x |
| 3324.6(6) | | | | | | | | x | | | | |
| 3353.4(7) | | | | | | | | | | | x | |
| 3364.6(7) | | | | | | | | | | | 100 | |
| 3364.9(6) | | | 100 | | | | | | | | | |
| 3376.5(6) | 9 ⁻ | | | | | | | | | x | | |
| 3417.1(6) | | | | | | | | | | | | x |
| 3455.0(6) | | | | | | | | x | | | | |
| 3541.9(6) | | | | | | | | | | | | x |
| 3590.5(7) | | | | | | | | | | | x | |
| 3596.2(6) | | | | | | | | | | x | | |
| 3863.3(6) | | | x | | | | | | | | | |
| 4006.0(7) | | | | | | | | | | | x | |
| 4151.2(7) | | | | | | | | | | | x | |

Energy levels and branching ratios [01Ka61]. Part 4

¹²⁸Xe
54

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | | |
|----------------|--------------------------|--------------------------------|-------------|-------------|-----------|------------------------|------------------------|------------------------|------|------|------------------------|------|
| | | $E_f^*:$ $J_f^\pi:$ | 2596 ⟨4⟩ | 2601 ⟨5⟩ | 2646 4 | 2698 6 ⁻ | 2720 6 ⁻ | 2731 7 ⁺ | 2737 | 2777 | 2787 8 ⁻ | 2820 |
| 2819.9(3) | ⟨6⟩ 5 ⁻ ,6 | | x | | | | | | | | | |
| 2822.7(4) | | | | | x | | | | | | | |
| 2944.24(24) | | | | 20(4) | | | | | | | | |
| 2954.9(4) | | | | | x | | | | | | | |
| 3026.2(4) | | | | x | | | | | | | | |
| 3068.6(5) | ⟨8,9⟩ ⁻ | | | | | | | | | x | | |
| 3084.5(4) | | | | | | x | x | | | | | |
| 3115.4(7) | | | | | | | | | | | 24(6) | |
| 3182.3(5) | | | | | | | | | | | x | |
| 3292.4(7) | | | | | | | | 100 | | | | |
| 3324.0(7) | | | | | | | | | | | | x |
| 3533.6(7) | | 9 ⁺ | | | | | | 100 | | | | |
| 3596.9(8) | | | | | | | | | x | | | |

Energy levels and branching ratios [01Ka61]. Part 5

¹²⁸Xe
₅₄

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | | | | |
|----------------|--------------------|--------------------------------|------|------|------|------------------------|----------------------------|-------------------------|-------------------------|------|----------------------------|-------------------------|----------------------------|-------------------------|
| | | $E_f^*:$ $J_f^\pi:$ | 2942 | 2944 | 2974 | 3051 8 ⁻ | 3115 ⟨8,9⟩ ⁻ | 3197 10 ⁺ | 3365 10 ⁺ | 3365 | 3708 ⟨10 ⁻ ⟩ | 3809 12 ⁺ | 4445 ⟨12 ⁻ ⟩ | 4618 14 ⁺ |
| 3214.3(8) | X ⁺ | | 100 | | | | | | | | | | | |
| 3215.6(5) | | | | | x | | | | | | | | | |
| 3250.4(5) | | | | | x | | | | | | | | | |
| 3320.6(4) | | | | x | | | | | | | | | | |
| 3594.0(7) | ⟨10 ⁻ ⟩ | | | | | 100 | | | | | | | | |
| 3685.4(9) | | x | | | | | | | | | | | | |
| 3707.7(7)* | ⟨10 ⁻ ⟩ | | | | 100 | | | | | | | | | |
| 3751.0(9) | | | | | | | | x | | | | | | |
| 3809.5(8) | 12 ⁺ | | | | | | 100 | | | | | | | |
| 4055.8(8) | | | | | | | | | x | | | | | |
| 4445.4(9)* | ⟨12 ⁻ ⟩ | | | | | | | | | x | | | | |
| 4618.2(9)* | 14 ⁺ | | | | | | | | | | x | | | |
| 5220.9(10)* | ⟨14 ⁻ ⟩ | | | | | | | | | | | x | | |
| 5573.4(10)* | ⟨16 ⁺ ⟩ | | | | | | | | | | | | | x |

Energy levels and branching ratios [96Te01].

¹²⁹Xe
₅₄

| E^* [keV] | $2J^\pi$ | $T_{1/2}$ or Γ_{cm} | Branching ratios in percentage | | | | | | |
|----------------|-------------------|--------------------------------------|--------------------------------|-----------------------|------------------------|--------------------------|----------------------------|-------------------------|-------------------------|
| | | | $E_f^*:$ $2J_f^\pi:$ | 0.0 1 ⁺ | 39.6 3 ⁺ | 236.1 11 ⁻ | 274.3 ⟨9 ⁻ ⟩ | 318.2 3 ⁺ | 321.7 5 ⁺ |
| 0.0 | 1 ⁺ | Stable | | | | | | | |
| 39.578(2) | 3 ⁺ | 0.97(2) ns | | 100 | | | | | |
| 236.14(3) | 11 ⁻ | 8.88(2) d | | | 100 | | | | |
| 274.28(19) | ⟨9 ⁻ ⟩ | | | | | 100 | | | |
| 318.179(2) | 3 ⁺ | 67.5(20) ps | | 65(1) | 35(7) | | | | |
| 321.711(5) | 5 ⁺ | 44.0(19) ps | | 22(2) | 78(10) | | | | |
| 411.496(2) | 1 ⁺ | 81(26) ps | | 41.6(2) | 57.1(2) | | | 1.22(3) | 0.005(1) |
| 442.20(15) | ⟨5⟩ ⁺ | | x | | 100 | | | | |
| 518.70(13) | 7 ⁺ | | | | 91(9) | | | | 9(1) |
| 525.26(17) | ⟨5⟩ ⁺ | | | | 100 | | | | |
| 572.68(4) | 5 ⁺ | 2.0(2) ps | | 13(1) | 81(2) | | | 2.0(10) | 4.0(10) |
| 588.533(4) | 3 ⁺ | ≤65 ps | | 12.7(3) | 72(1) | | | 4.2(6) | 5.7(1) |
| 624.45(15) | | | | | 100 | | | | ≤67 |
| 665.42(11) | ⟨7⟩ ⁺ | | | | | | x | 57(6) | 43(13) |
| 692.96(18) | ⟨3,5⟩ | | | | x | | | | |
| 771.11(15) | ⟨13⟩ ⁻ | | | | | 100 | | | |
| 822.16(11) | ⟨9⟩ ⁺ | | | | | | | | 81(8) |
| 823.05(16) | ⟨1,3,5⟩ | | | | | | | x | |
| 823.31(18) | ⟨15⟩ ⁻ | | | | | 100 | | | |
| 868.05(15) | ⟨7⟩ ⁺ | | | | | | | 57(21) | 43.2(13) |
| 904.318(8) | 3 ⁺ | | | 13(1) | 49(1) | | | 20(2) | 1(1) |
| 908.62(21) | ⟨7,9,11⟩ | | | | | x | x | | |

(continued)

 $^{129}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | $T_{1/2}$ or Γ_{cm} | $E^*_f:$ $2J^\pi_f:$ | Branching ratios in percentage | | | | | |
|----------------|------------------------|--------------------------------------|-------------------------|--------------------------------|---------------|-----------------|--------------------------------|----------------|----------------|
| | | | | 0.0 1^+ | 39.6 3^+ | 236.1 11^- | 274.3 $\langle 9^- \rangle$ | 318.2 3^+ | 321.7 5^+ |
| 946.029(4) | $1^+, 3^+$ | | | 18.9(2) | 59.7(4) | | | 0.47(10) | 7.6(2) |
| 985.7(4) | | | | | | | | | 100 |
| 995.7(3) | $\langle 1, 3 \rangle$ | | | | | | | | |
| 1022.31(25) | $\langle 7 \rangle^+$ | | | | | | | | |
| 1032.00(19) | $\langle 13^- \rangle$ | | | | | x | x | | |
| 1059.57(20) | | | | | | | x | | |
| 1089.48(17) | $\langle 11 \rangle^+$ | | | | | | | | |
| 1194.5(4) | | | | | | | | | |
| 1194.6(3) | | | | | | | | | |
| 1197.11(22) | | | | | | | | | |
| 1229.9(4) | | | | | | | | | |
| 1241.2(3) | $\langle 1, 3 \rangle$ | | | | | | | | |
| 1336.12(24) | $\langle 11 \rangle$ | | | | | | | | |
| 1395.53(21) | $\langle 15 \rangle^-$ | | | | | | | | |
| 1414.27(19) | $\langle 13 \rangle^+$ | | | | | | | | |
| 1430.24(22) | | | | | | | | | |
| 1497.0(4) | | | | | | | | | |
| 1507.0(2) | $\langle 17 \rangle^-$ | | | | | | | | |
| 1539.4(4) | | | | | | | | | |
| 1576.0(3) | $\langle 19 \rangle^-$ | | | | | | | | |
| 1748.7(4) | | | | | | | | | |
| 1755.3(4) | | | | | | | | | |
| 1762.28(23) | $\langle 15 \rangle^+$ | | | | | | | | |
| 1816.04(21) | | | | | | | | | |
| 1888.5(3) | | | | | | | | | |
| 1972.2(3) | $\langle 17 \rangle^-$ | | | | | | | | |
| 2036.2(3) | | | | | | | | | |
| 2048.2(4) | $\langle 15 \rangle$ | | | | | | | | |
| 2064.7(3) | $\langle 17 \rangle^+$ | | | | | | | | |
| 2172.0(4) | | | | | | | | | |
| 2180.0(4) | $\langle 19 \rangle^-$ | | | | | | | | |
| 2293.1(4) | $\langle 21 \rangle^-$ | | | | | | | | |
| 2307.3(4) | | | | | | | | | |
| 2433.5(4) | | | | | | | | | |
| 2446.3(4) | $\langle 23 \rangle^-$ | | | | | | | | |
| 2586.2(4) | $\langle 23 \rangle^-$ | | | | | | | | |

Additional data on this isotope can be found in [96Ne04].

Abundance: 26.40(18) %.

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [96Te01]. Part 2

 $^{129}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | |
|----------------|---------------------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|----------------|-------|--------------------------------|---------------------------------|
| | | $E_f^*:$ $2J_f^\pi:$ | 411.5 1^+ | 442.2 $\langle 5 \rangle^+$ | 518.7 7^+ | 525.3 $\langle 5 \rangle^+$ | 572.7 5^+ | 588.5 3^+ | 624.4 | 665.4 $\langle 7 \rangle^+$ | 693.0 $\langle 3, 5 \rangle$ |
| 588.533(4) | 3^+ | | 5.7(1) | | | | | | | | |
| 665.42(11) | $\langle 7 \rangle^+$ | | | | x | | | | | | |
| 692.96(18) | $\langle 3, 5 \rangle$ | | | x | | x | | | | | |
| 822.16(11) | $\langle 9 \rangle^+$ | | | | 17.6(17) | | x | | | 1.7(6) | |
| 823.05(16) | $\langle 1, 3, 5 \rangle$ | x | | | | | | x | | | |
| 904.318(8) | 3^+ | 17(1) | | | | | | | | | |
| 946.029(4) | $1^+, 3^+$ | 5.7(2) | | | | | 4(4) | 1.6(2) | 2(2) | | |
| 995.7(3) | $\langle 1, 3 \rangle$ | 100 | | | | | | | | | |
| 1022.31(25) | $\langle 7 \rangle^+$ | | | 100 | | | | | | | |
| 1059.57(20) | | | | | | | | | | x | |
| 1089.48(17) | $\langle 11 \rangle^+$ | | | | 95(9) | | | | | | |
| 1194.5(4) | | | | | 100 | | | | | | |
| 1194.6(3) | | | | | | | 100 | | | | |
| 1197.11(22) | | | x | | | x | | | | | x |
| 1229.9(4) | | | | | 100 | | | | | | |
| 1241.2(3) | $\langle 1, 3 \rangle$ | 100 | | | | | | | | | |
| 1336.12(24) | $\langle 11 \rangle$ | | | | x | | | | | x | |

Energy levels and branching ratios [96Te01]. Part 3

 $^{129}_{54}\text{Xe}$

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | |
|----------------|------------------------|--------------------------------|---------------------------------|--------------------------------|------------------------------------|---------------------------------|--------------------------------|-------|---------------------------------|----------------------------------|--------|
| | | $E_f^*:$ $2J_f^\pi:$ | 771.1 $\langle 13 \rangle^-$ | 822.2 $\langle 9 \rangle^+$ | 823.0 $\langle 1, 3, 5 \rangle$ | 823.3 $\langle 15 \rangle^-$ | 868.0 $\langle 7 \rangle^+$ | 908.6 | 1022.3 $\langle 7 \rangle^+$ | 1032.0 $\langle 13^- \rangle$ | 1059.6 |
| 1089.48(17) | $\langle 11 \rangle^+$ | | | 5.2(15) | | | | | | | |
| 1395.53(21) | $\langle 15 \rangle^-$ | 100 | | | | | | | | | |
| 1414.27(19) | $\langle 13 \rangle^+$ | | | x | | | | | | | |
| 1430.24(22) | | x | | | | | | x | | x | |
| 1497.0(4) | | | | | | | 100 | | | | |
| 1507.0(2) | $\langle 17 \rangle^-$ | x | | | x | | | | | | |
| 1539.4(4) | | | | | | 100 | | | | | |
| 1576.0(3) | $\langle 19 \rangle^-$ | | | | | 100 | | | | | |
| 1748.7(4) | | | | | | | | | | | 100 |
| 1755.3(4) | | | | | | | | | 100 | | |
| 1816.04(21) | | | | | | x | | | | x | |
| 2036.2(3) | | x | | | x | | | | | | |
| 2172.0(4) | | | | | 100 | | | | | | |

Energy levels and branching ratios [96Te01]. Part 4

¹²⁹Xe
₅₄

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | |
|----------------|------------------------|--------------------------------|----------------------------------|--------|--------|--------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| | | $E_f^*:$ $2J_f^\pi:$ | 1089.5 $\langle 11 \rangle^+$ | 1194.5 | 1197.1 | 1336.1 $\langle 11 \rangle$ | 1395.5 $\langle 15 \rangle^-$ | 1414.3 $\langle 13 \rangle^+$ | 1576.0 $\langle 19 \rangle^-$ | 1762.3 $\langle 15 \rangle^+$ | 2180.0 $\langle 19 \rangle^-$ |
| 1414.27(19) | $\langle 13 \rangle^+$ | | x | | | | | | | | |
| 1762.28(23) | $\langle 15 \rangle^+$ | | x | | | | | x | | | |
| 1816.04(21) | | | | | | | x | | | | |
| 1888.5(3) | | | | 100 | | | | | | | |
| 1972.2(3) | $\langle 17 \rangle^-$ | | | | | 100 | | | | | |
| 2048.2(4) | $\langle 15 \rangle$ | | | | | | | | | | |
| 2064.7(3) | $\langle 17 \rangle^+$ | | | | | | | 100 | | | |
| 2180.0(4) | $\langle 19 \rangle^-$ | | | | | | | | 100 | | |
| 2293.1(4) | $\langle 21 \rangle^-$ | | | | | | | | 100 | | |
| 2307.3(4) | | | | | 100 | | | | | | |
| 2433.5(4) | | | | | | | | | | 100 | |
| 2446.3(4) | $\langle 23 \rangle^-$ | | | | | | | | 100 | | |
| 2586.2(4) | $\langle 23 \rangle^-$ | | | | | | | | | | 100 |

Energy levels and branching ratios [01Si26].

¹³⁰Xe
₅₄

| E^* | J^π | L | $d\sigma/d\Omega$ | ε | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|--------------|----------------------------|-------|-------------------|---------------|----------------------|--------|--------------------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|
| [keV] | | (d,n) | $\mu\text{b/sr}$ | (d,n) | Γ_{cm} | | E_f^* : J_f^π : | 0.0 0 ⁺ | 536 2 ⁺ | 1122 2 ⁺ | 1205 4 ⁺ | 1633 3 ⁺ |
| 0.0 | 0 ⁺ | 0 | 244 | 2.55 | Stable | 79Al14 | | | | | | |
| 536.07(1) | 2 ⁺ | | | | 9(2) ps | | | 100 | | | | |
| 1122.11(1) | 2 ⁺ | | | | <3 ns | | | 13.3 | 87(3) | | | |
| 1204.61(1) | 4 ⁺ | | | | <2 ns | | | | 100 | | | |
| 1590.4(7) | | | | | | | | | 44(44) | 56(17) | | |
| 1632.58(1) | 3 ⁺ | | | | <2 ns | | | | 37(2) | 57(2) | 6(1) | |
| 1793.5(2) | 0 ⁺ | | | | | | x | 86(17) | 14(7) | | | |
| 1808.17(1) | $\langle 4^+ \rangle$ | | | | | | | 31(1) | 44(2) | 25(1) | | |
| 1944.14(1) | 6 ⁺ | | | | <2 ns | | | | | | 100 | |
| 2017.1(2) | 0 ⁺ | 0 | 95 | 0.84 | | 79Al14 | x | 6(1) | 94(9) | | | |
| 2059.60(5) | $\langle 5 \rangle^-$ | | | | 0.2(1) ns | | | | | | 100 | |
| 2081.96(4) | $\langle 4^+ \rangle$ | | | | | | | | 11(2) | | 89(4) | |
| 2103.4(2) | $\langle 4 \rangle^-$ | | | | 0.5(1) nd | | | | | | | 100 |
| 2150.19(3) | $\langle 2^+ \rangle$ | 2 | 45 | 2.02 | | 79Al14 | | 4.1(2) | 88(4) | 7.7(4) | 0.2(1) | |
| 2171.632(12) | $\langle 4^+, 5^+ \rangle$ | | | | | | | | | | 37(1) | 59 |
| 2223.50(20) | | | | | | | | | 100 | | | |
| 2242.91(20) | | | | | | | | | 100 | | | |
| 2278 | $\langle 3^- \rangle$ | | | | | 06Mu04 | | | | | | |
| 2296.09(5) | 1,2 | | | | | | | 10.9(9) | 85(9) | 3.7(9) | | |
| 2307.79(18) | 1,2 | | | | | | | 100 | | | | |
| 2310.02(18) | $\langle 5 \rangle^-$ | | | | <3 ns | | | | | | | |
| 2345.95(19) | $\langle 6 \rangle^-$ | | | | <3 ns | | | | | | | |
| 2362.073(12) | 5 ⁺ | | | | 9.4(14) ps | | | | | | 24.4(9) | 0.024(17) |

(continued)

¹³⁰Xe
₅₄

| E^* | J^π | L | $d\sigma/d\Omega$ | ε | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|--------------|----------------------------|-------|-------------------|---------------|----------------------|--------|--|-----------------------|-----------------------|------------------------|------------------------|------------------------|
| [keV] | | (d,n) | $\mu\text{b/sr}$ | (d,n) | Γ_{cm} | | E_{f}^* : J_{f}^π : | 0.0 0 ⁺ | 536 2 ⁺ | 1122 2 ⁺ | 1205 4 ⁺ | 1633 3 ⁺ |
| 2375.21(10) | $\langle 7^- \rangle$ | | | | 0.30(10) ns | | | | | | | |
| 2386.20(19) | | | | | | | | | 37(7) | 44(9) | 3.3(27) | |
| 2427.18(4) | $\langle 4^+ \rangle$ | | | | | | | | | 2.64(11) | 97(5) | |
| 2442.04(15) | $\langle 6^- \rangle$ | | | | <2 ns | | | | | | | |
| 2494.10(4) | | | | | | | | | 100 | | | |
| 2502.207(25) | 1,2 | | | | | | | 12.9(6) | 51(2) | 35(2) | | |
| 2533.4(3) | | | | | | | | | 100 | | | |
| 2544.43(8) | | | | | | | | 10(4) | 90(9) | | | |
| 2608.426(19) | | | | | | | | | | | 70(4) | |
| 2622.32(9) | | | | | | | | | | | 32(5) | |
| 2628.36(10) | | | | | | | | | 100 | | | |
| 2629.389(23) | | | | | | | | | | | 6.3(6) | 9(1) |
| 2633.2(4) | | | | | | | | | | | | |
| 2637.50(5) | | | | | | | | | 100 | | | |
| 2644.87(5) | | | | | | | | | 47(3) | | 49(3) | |
| 2659.35(19) | $\langle 7^- \rangle$ | | | | <2 ns | | | | | | | |
| 2692.55(12) | $\langle 4^+, 5^+ \rangle$ | | | | | | | | | | 42(7) | 58(18) |
| 2696.95(12) | 8 ⁺ | | | | <3 ns | | | | | | | |
| 2704.92(8) | | | | | | | | | | | 51(3) | |
| 2752.43(3) | | | | | | | | | | | 5.6(13) | |
| 2762.6(3) | 1,2 | | | | | | | 100 | | | | |
| 2811.92(10) | $\langle 4^+ \rangle$ | | | | | | | | | 6(1) | 48(3) | |
| 2841.58(16) | $\langle 8^- \rangle$ | | | | <4 ns | | | | | | | |
| 2886.0(4) | 1,2 | | | | | | | [62] | | | | |
| 2931.42(15) | $\langle 8^+ \rangle$ | | | | | | | | | | | |
| 2954.3(6) | | | | | | | | | | | | |
| 2972.41(15) | 10 ⁺ | | | | 5.13(11) ns | | | | | | | |
| 2978.5(4) | 1,2 | | | | | | | 63(11) | | | | |
| 3058.45(24) | | | | | | | | | | | | |
| 3070.6(5) | | | | | | | | | | 49(15) | | |
| 3071.49(16) | $\langle 9^- \rangle$ | | | | | | | | | | | |
| 3151.3(4) | | | | | | | | | 26(11) | 48(14) | | |
| 3189.1(6) | | | | | | | | | 83(33) | 17(9) | | |
| 3230(200) | 2 ⁺ | 2 | 45 | 1.16 | | 79Al14 | | | | | | |
| 3242.9(6) | | | | | | | | | | | | |
| 3277.56(19) | $\langle 9^+ \rangle$ | | | | | | | | | | | |
| 3299.0(4) | | | | | | | | | ≤66 | 88(27) | | |
| 3326.1(4) | | | | | | | | | | | | |
| 3341.6(3) | | | | | | | | | | | | |
| 3406.0(6) | | | | | | | | | 28(12) | 15(7) | | |
| 3461.23(19) | $\langle 10^+ \rangle$ | | | | <3 ns | | | | | | | |
| 3535.2(5) | | | | | | | | | | | | |
| 3542.17(18) | $\langle 10^- \rangle$ | | | | | | | | | | | |
| 3622.9(6) | | | | | | | | | | | | |
| 3688.1(7) | | | | | | | | | | | | |

(continued)

¹³⁰Xe
54

| E^* | J^π | L | $d\sigma/d\Omega$ | ε | $T_{1/2}$ or Ref. | Branching ratios in percentage | | | | | |
|-------------|------------------------|-------|-------------------|---------------|----------------------|--|-----------------------|-----------------------|------------------------|------------------------|------------------------|
| [keV] | | (d,n) | $\mu\text{b/sr}$ | (d,n) | Γ_{cm} | $E_{\text{f}}^*:$ $J_{\text{f}}^\pi:$ | 0.0 0 ⁺ | 536 2 ⁺ | 1122 2 ⁺ | 1205 4 ⁺ | 1633 3 ⁺ |
| 3693.27(18) | 12 ⁺ | | | | <2 ns | | | | | | |
| 3780.5(6) | | | | | | | | | | | |
| 3814.31(25) | | | | | | | | | | | |
| 3893.35(19) | $\langle 11^- \rangle$ | | | | | | | | | | |
| 3894.2(9) | | | | | | | | | | | |
| 3957.1(3) | | | | | | | | | | | |
| 3959.6(10) | | | | | | | | | | | |
| 3977.3(6) | 1,2 | | | | | | 15(5) | | | | 79(20) |
| 3988.4(6) | | | | | | | | | | | |
| 4184.7(3) | | | | | | | | | | | |
| 4217.2(3) | $\langle 12^+ \rangle$ | | | | | | | | | | |
| 4347.06(21) | $\langle 12^- \rangle$ | | | | | | | | | | |
| 4370.8(3) | | | | | | | | | | | |
| 4540.13(20) | $\langle 13^- \rangle$ | | | | | | | | | | |
| 4551.0(4) | | | | | | | | | | | |
| 4590.5(3) | $\langle 14^+ \rangle$ | | | | | | | | | | |
| 4628.4(3) | | | | | | | | | | | |
| 4635.2(3) | | | | | | | | | | | |
| 4827.8(3) | | | | | | | | | | | |
| 4933.2(4) | | | | | | | | | | | |
| 4942.66(23) | $\langle 14^- \rangle$ | | | | | | | | | | |
| 4971.6(3) | $\langle 15^- \rangle$ | | | | | | | | | | |
| 5070.0(4) | $\langle 14^+ \rangle$ | | | | | | | | | | |
| 5121.1(4) | | | | | | | | | | | |
| 5296.7(3) | | | | | | | | | | | |
| 5437.5(11) | | | | | | | | | | | |
| 5560.9(4) | | | | | | | | | | | |
| 5587.7(4) | $\langle 16^+ \rangle$ | | | | | | | | | | |
| 5604.8(3) | $\langle 16^- \rangle$ | | | | | | | | | | |
| 5891.7(4) | | | | | | | | | | | |
| 5953.1(4) | $\langle 17^- \rangle$ | | | | | | | | | | |
| 5960.0(11) | | | | | | | | | | | |
| 6290.5(4) | | | | | | | | | | | |
| 6605.9(4) | | | | | | | | | | | |
| 6643.3(4) | | | | | | | | | | | |
| 6971.3(4) | | | | | | | | | | | |

Additional data on this isotope can be found in [02Ja02, 96Ko16].

Abundance: 4.071(53) %.

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [01Si26]. Part 2

¹³⁰Xe
₅₄

| E^* | J^π | Branching ratios in percentage | | | | | | | | | |
|--------------|-----------------------------------|--------------------------------|------------------------|---------------------------|--------------------------|---------------------------|------------------------------|------------------------------|------------------------------|------------------------------|--|
| [keV] | | E_f^* : J_f^π : | 1793 0 ⁺ | 1808 ⟨4 ⁺ ⟩ | 1944.1 6 ⁺ | 2017.06 0 ⁺ | 2059.60 ⟨5 [−] ⟩ | 2081.96 ⟨4 ⁺ ⟩ | 2103.41 ⟨4 [−] ⟩ | 2150.19 ⟨2 ⁺ ⟩ | 2171.63 ⟨4 ⁺ ,5 ⁺ ⟩ |
| 2171.632(12) | ⟨4 ⁺ ,5 ⁺ ⟩ | | | 3.8(8) | 0.5(2) | | | | | | |
| 2310.02(18) | ⟨5 [−] ⟩ | | | | | | 26(6) | | 74(9) | | |
| 2345.95(19) | ⟨6 [−] ⟩ | | | | | | 100 | | | | |
| 2362.073(12) | 5 ⁺ | | | 1.44(6) | 74(2) | | 0.028(10) | 0.052(15) | | | <0.0010 |
| 2375.21(10) | ⟨7 [−] ⟩ | | | | 12(2) | | 88(5) | | | | |
| 2442.04(15) | ⟨6 [−] ⟩ | | | | | | 68(5) | | 26(5) | | |
| 2502.207(25) | 1,2 | | | | | | | | | 1.1(3) | |
| 2608.426(19) | | | | 20.5(10) | | | | | | | |
| 2622.32(9) | | | | 68(14) | | | | | | | |
| 2629.389(23) | | | | 13(1) | | | | | | | 72(4) |
| 2633.2(4) | | | | 12(7) | | | | | | | |
| 2644.87(5) | | | | 3.7(1) | | | | | | | |
| 2659.35(19) | ⟨7 [−] ⟩ | | | | | | 67(13) | | | | |
| 2696.95(12) | 8 ⁺ | | | | 100 | | | | | | |
| 2704.92(8) | | | | 27(7) | | | | 22(14) | | | |
| 2752.43(3) | | | | 20(4) | 74(3) | | | | | | |
| 2811.92(10) | ⟨4 ⁺ ⟩ | | | | 46(6) | | | | | | |
| 2931.42(15) | ⟨8 ⁺ ⟩ | | | | [100] | | | | | | |
| 2954.3(6) | | | | | | 7.0(23) | | | | | |
| 2978.5(4) | 1,2 | | | | | 20(8) | | | | | 10(4) |
| 3070.6(5) | | | | ≈16 | | ≤13 | | | | | |
| 3299.0(4) | | | | | | | | | | | 12(8) |
| 3326.1(4) | | | | | | | | | [25] | | [75] |
| 3406.0(6) | | | | | | 17(7) | | | | | |
| 3535.2(5) | | | | ≤39 | | | | | | | |
| 3622.9(6) | | | | 51(26) | | | | | | | ≤87 |
| 3780.5(6) | | [70] | | | | | | | | | |
| 3894.2(9) | | 93 | | | | | | | | | |

Energy levels and branching ratios [01Si26]. Part 3

¹³⁰Xe
₅₄

| E^* | J^π | Branching ratios in percentage | | | | | | | | | |
|--------------|-----------------------|--------------------------------|---------|---------|---------|---------|-----------------------|-----------------------|---------|-----------------------|---------|
| [keV] | | E_f^* : J_f^π : | 2223.50 | 2242.91 | 2296.09 | 2307.79 | 2310.02 | 2345.95 | 2362.07 | 2375.21 | 2386.20 |
| | | | | | 1,2 | 1,2 | $\langle 5 \rangle^-$ | $\langle 6 \rangle^-$ | 5^+ | $\langle 7 \rangle^-$ | |
| 2386.20(19) | | | 16(4) | | | | | | | | |
| 2442.04(15) | $\langle 6 \rangle^-$ | | | | | 6(3) | | | | | |
| 2608.426(19) | | | | | | | | | 9.5(10) | | |
| 2633.2(4) | | | | | | | | | | | 88(22) |
| 2659.35(19) | $\langle 7^- \rangle$ | | | | | | | 33 | | | |
| 2841.58(16) | $\langle 8^- \rangle$ | | | | | | | | | 91(9) | |
| 2886.0(4) | 1,2 | | | | | | | | | | [12] |
| 2978.5(4) | 1,2 | | | 6(4) | | | | | | | |

(continued)

¹³⁰Xe
54

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | |
|----------------|-----------------------|--------------------------------|---------|---------|----------------|----------------|----------------------------------|----------------------------------|------------------|----------------------------------|---------|
| | | E_f^* : J_f^π : | 2223.50 | 2242.91 | 2296.09 1,2 | 2307.79 1,2 | 2310.02 $\langle 5 \rangle^-$ | 2345.95 $\langle 6 \rangle^-$ | 2362.07 5^+ | 2375.21 $\langle 7 \rangle^-$ | 2386.20 |
| 3070.6(5) | | | | | | 35(7) | | | | | |
| 3071.49(16) | $\langle 9^- \rangle$ | | | | | | | | | 63 | |
| 3151.3(4) | | | | 22(4) | ≤ 41 | | | | | | 4(2) |
| 3406.0(6) | | | | | | | | | | | 40(10) |
| 3535.2(5) | | 61(18) | | | | | | | | | |
| 3988.4(6) | | ≤ 22 | | 45(22) | | | | | | | |

Energy levels and branching ratios [01Si26]. Part 4

¹³⁰Xe
54

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | |
|----------------|------------------------|--------------------------------|----------------------------------|---------|-----------|-----------|---------|------------------|---------------|----------------------------------|---------------|
| | | E_f^* : J_f^π : | 2442.04 $\langle 6 \rangle^-$ | 2544.43 | 2628.36 | 2633.2 | 2637.50 | 2696.95 8^+ | 2762.6 1,2 | 2841.58 $\langle 8^- \rangle$ | 2886.0 1,2 |
| 2841.58(16) | $\langle 8^- \rangle$ | 9 | | | | | | | | | |
| 2886.0(4) | 1,2 | | | | | [25] | | | | | |
| 2954.3(6) | | | | | | | | | 93(14) | | |
| 2972.41(15) | 10^+ | | | | | | | 100 | | | |
| 3058.45(24) | | | | | | | | 100 | | | |
| 3071.49(16) | $\langle 9^- \rangle$ | | | | | | | | | 37 | |
| 3326.1(4) | | | | | ≤ 31 | | | | | | |
| 3341.6(3) | | | | | | | | | | 100 | |
| 3461.23(19) | $\langle 10^+ \rangle$ | | | | | | | 75(23) | | | |
| 3542.17(18) | $\langle 10^- \rangle$ | | | | | | | | | 61(10) | |
| 3622.9(6) | | | | | | | 27(11) | | | | 22(15) |
| 3688.1(7) | | | | | 100 | ≤ 27 | | | | | |
| 3988.4(6) | | | | | | 25(11) | | | | | |

Energy levels and branching ratios [01Si26]. Part 5

¹³⁰Xe
54

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | |
|----------------|------------------------|--------------------------------|----------------------------------|--------|-------------------|---------------|----------------------------------|--------|--------|----------------------------------|--------|
| | | E_f^* : J_f^π : | 2931.42 $\langle 8 \rangle^+$ | 2954.3 | 2972.41 10^+ | 2978.5 1,2 | 3071.49 $\langle 9^- \rangle$ | 3151.3 | 3189.1 | 3277.56 $\langle 9^+ \rangle$ | 3326.1 |
| 3277.56(19) | $\langle 9^+ \rangle$ | | 50(10) | | 50(10) | | | | | | |
| 3461.23(19) | $\langle 10^+ \rangle$ | | | | 25(13) | | | | | | |
| 3535.2(5) | | | | | | | | | | | 39(10) |
| 3542.17(18) | $\langle 10^- \rangle$ | | | | | | 39(10) | | | | |
| 3693.27(18) | 12^+ | | | | 100 | | | | | | |
| 3780.5(6) | | | | [30] | | | | | | | |
| 3814.31(25) | | | | | 100 | | | | | | |
| 3893.35(19) | $\langle 11^- \rangle$ | | | | | | 92(18) | | | | |

(continued)

 $^{130}_{54}\text{Xe}$

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | |
|----------------|---------|--------------------------------|----------------------------------|--------|-------------------|---------------|----------------------------------|--------|--------|----------------------------------|
| | | E^*_f : J^π_f : | 2931.42 $\langle 8 \rangle^+$ | 2954.3 | 2972.41 10^+ | 2978.5 1,2 | 3071.49 $\langle 9^- \rangle$ | 3151.3 | 3189.1 | 3277.56 $\langle 9^+ \rangle$ |
| 3894.2(9) | | | | | | 7(4) | | | | |
| 3957.1(3) | | | | | | | | | | 100 |
| 3959.6(10) | | | | | | 100 | | | | |
| 3977.3(6) | 1,2 | | | | | | | 6(3) | | |
| 3988.4(6) | | | | | | | 13(7) | 18(6) | | |

Energy levels and branching ratios [01Si26]. Part 6

 $^{130}_{54}\text{Xe}$

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | |
|----------------|------------------------|--------------------------------|-----------------------------------|-----------------------------------|-------------------|---------|-----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|
| | | E^*_f : J^π_f : | 3461.23 $\langle 10^+ \rangle$ | 3542.17 $\langle 10^- \rangle$ | 3693.27 12^+ | 3814.31 | 3893.35 $\langle 11^- \rangle$ | 4217.2 $\langle 12^+ \rangle$ | 4347.06 $\langle 12^- \rangle$ | 4540.13 $\langle 13^- \rangle$ |
| 3893.35(19) | $\langle 11^- \rangle$ | | | 8(5) | | | | | | |
| 4184.7(3) | | | | 100 | | | | | | |
| 4217.2(3) | $\langle 12^+ \rangle$ | 100 | | | | | | | | |
| 4347.06(21) | $\langle 12^- \rangle$ | | | 67(17) | | | 33(7) | | | |
| 4370.8(3) | | | | | 100 | | | | | |
| 4540.13(20) | $\langle 13^- \rangle$ | | | | ≈ 32 | | 68(16) | | | |
| 4551.0(4) | | | | | | 100 | | | | |
| 4590.5(3) | $\langle 14^+ \rangle$ | | | | 100 | | | | | |
| 4628.4(3) | | | | | | | 100 | | | |
| 4635.2(3) | | | | | 100 | | | | | |
| 4827.8(3) | | | | | | | 100 | | | |
| 4933.2(4) | | | | | | | | | | |
| 4942.66(23) | $\langle 14^- \rangle$ | | | | | | | | | 100 |
| 4971.6(3) | $\langle 15^- \rangle$ | | | | | | | | 85(17) | 15(8) |
| 5070.0(4) | $\langle 14^+ \rangle$ | | | | | | | 100 | | 100 |
| 5296.7(3) | | | | | | | | | 100 | |

Energy levels and branching ratios [01Si26]. Part 7

 $^{130}_{54}\text{Xe}$

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | |
|----------------|------------------------|--------------------------------|----------------------------------|--------|-----------------------------------|----------------------------------|--------|--------|----------------------------------|----------------------------------|
| | | E^*_f : J^π_f : | 4590.5 $\langle 14^+ \rangle$ | 4635.2 | 4942.66 $\langle 14^- \rangle$ | 4971.6 $\langle 15^- \rangle$ | 5437.5 | 5560.9 | 5587.7 $\langle 16^+ \rangle$ | 5604.8 $\langle 16^- \rangle$ |
| 5121.1(4) | | | | 100 | | | | | | |
| 5437.5(11) | | | 100 | | | | | | | |
| 5560.9(4) | | | | 100 | | | | | | |
| 5587.7(4) | $\langle 16^+ \rangle$ | 100 | | | | | | | | |
| 5604.8(3) | $\langle 16^- \rangle$ | | | | 50(25) | 50(25) | | | | |
| 5891.7(4) | | | | | | | | 100 | | |

(continued)

¹³⁰Xe
₅₄

| E^* | J^π | Branching ratios in percentage | | | | | | | | | |
|------------|------------------------|--------------------------------|----------------------------------|--------|-----------------------------------|----------------------------------|--------|--------|----------------------------------|----------------------------------|----------------------------------|
| [keV] | | E_f^* : J_f^π : | 4590.5 $\langle 14^+ \rangle$ | 4635.2 | 4942.66 $\langle 14^- \rangle$ | 4971.6 $\langle 15^- \rangle$ | 5437.5 | 5560.9 | 5587.7 $\langle 16^+ \rangle$ | 5604.8 $\langle 16^- \rangle$ | 5953.1 $\langle 17^- \rangle$ |
| 5953.1(4) | $\langle 17^- \rangle$ | | | | 100 | | | | | | |
| 5960.0(11) | | | | | | 100 | | | | | |
| 6290.5(4) | | | | | | | | | 100 | | |
| 6605.9(4) | | | | | | | | | 100 | | |
| 6643.3(4) | | | | | | | | | | 100 | |
| 6971.3(4) | | | | | | | | | | | 100 |

Energy levels and branching ratios [94Se10].

¹³¹Xe
₅₄

| E^* [keV] | $2J^\pi$ | $T_{1/2}$ or Γ_{cm} | Branching ratios in percentage | | | | | | | |
|----------------|-------------------------|--------------------------------------|--------------------------------|--------------|----------------|-----------------|----------------|----------------|----------------|----------------|
| | | | E_f^* : $2J_f^\pi$: | 0.0 3^+ | 80.18 1^+ | 163.9 11^- | 341.1 9^- | 364.5 5^+ | 404.8 3^+ | 637.0 7^+ |
| 0.0 | 3^+ | Stable | | | | | | | | |
| 80.1854(19) | 1^+ | 0.48(3) ns | | 100 | | | | | | |
| 163.930(8) | 11^- | 11.84(7) d | | 100 | | | | | | |
| 341.145(9) | 9^- | 1.6(4) ns | | | | 100 | | | | |
| 364.490(4) | 5^+ | 69(2) ps | | 93.0(7) | 6.99(6) | | | | | |
| 404.815(4) | 3^+ | 18(3) ps | | 72(2) | 28(4) | | | | | |
| 565.19(15) | $\langle 1,3 \rangle^+$ | 5.9(11) ps | | 92(2) | 8(2) | | | | | |
| 636.991(4) | 7^+ | 6.1(5) ps | | 99(1) | | | 0.03(1) | 0.80(2) | 0.04(1) | |
| 666.934(9) | 7^- | <0.5 ns | | | | 56.4(5) | 43(3) | 0.74(9) | | |
| 699.90(10) | 3^+ | | | 46(7) | 21(5) | | | 27(5) | 6(3) | |
| 722.909(4) | 5^+ | 0.53(5) ps | | 85(1) | 10.4(2) | | | 0.8(3) | 3.7(1) | 0.004(3) |
| 805.93(20) | 15^- | | | | | 100 | | | | |
| 913.84(14) | | | | 1.1(8) | 55(4) | | | 44(8) | | |
| 952.29(15) | | | | | | | 93(15) | | | |
| 971.22(13) | $\langle 9^+ \rangle$ | | | | | | | 95(11) | | 5.3(13) |
| 973.11(14) | 7^+ | 4.9(9) ps | | 53(16) | | | | 47(2) | | <23 |
| 994.42(20) | | | | | | | | | 100 | |
| 1034.32(20) | $\langle 5 \rangle^+$ | | | | | | | | 100 | |
| 1045.55(20) | $\langle 13 \rangle^-$ | | | | | | | 100 | | |
| 1113.28(15) | $\langle 9 \rangle^-$ | | | | | 72(18) | | | | |
| 1156.55(20) | $\langle 11 \rangle^-$ | | | | | | 100 | | | |
| 1191.15(20) | $\langle 11^- \rangle$ | | | | | | 100 | | | |
| 1245.0(10) | | | | | | | | | | 100 |
| 1320.25(20) | $\langle 13^- \rangle$ | | | | | | 100 | | | |
| 1397.34(17) | 11^+ | | | | | | | | | 100 |
| 1456.29(20) | $\langle 9 \rangle^+$ | | | | | | | | | 100 |
| 1584.18(19) | $\langle 13^+ \rangle$ | | | | | | | | | |
| 1600.6(3) | 17^- | | | | | | | | | |
| 1616.3(3) | 19^- | | | | | | | | | |
| 1621.02(24) | | | | | | | | | | |

(continued)

¹³¹Xe
₅₄

| E^* [keV] | $2J^\pi$ | $T_{1/2}$ or Γ_{cm} | Branching ratios in percentage | | | | | | | |
|----------------|------------------------|--------------------------------------|--------------------------------|-----------------------|-------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | | | E_f^* : $2J_f^\pi$: | 0.0 3 ⁺ | 80.18 1 ⁺ | 163.9 11 ⁻ | 341.1 9 ⁻ | 364.5 5 ⁺ | 404.8 3 ⁺ | 637.0 7 ⁺ |
| 1641.42(24) | $\langle 11^+ \rangle$ | | | | | | | | | |
| 1654.22(24) | $\langle 13^+ \rangle$ | | | | | | | | | |
| 1721.91(25) | $\langle 11 \rangle$ | | | | | | | | | |
| 1804.42(24) | | | | | | | | | | |
| 1805.3(3) | 19 ⁺ | 14(3) ns | | | | | | | | |
| 1860.7(3) | $\langle 17 \rangle^-$ | | | | | | | | | |
| 1997.8(4) | $\langle 17^+ \rangle$ | | | | | | | | | |
| 2089.5(3) | $\langle 19 \rangle$ | | | | | | | | | |
| 2194.3(5) | $\langle 23^+ \rangle$ | | | | | | | | | |
| 2249.3(5) | $\langle 21^+ \rangle$ | | | | | | | | | |
| 2297.1(4) | $\langle 15^+ \rangle$ | | | | | | | | | |
| 2517.8(4) | | | | | | | | | | |
| 3185.9(6) | | | | | | | | | | |

Abundance: 21.232(62) %.

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [94Se10]. Part 2

¹³¹Xe
₅₄

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|------------------------|--------------------------------|-------------------------|---------------------------|---------------------------------|--------------------------|----------------------------|---------------------------|---------------------------|-----------------------------------|-----------------------------------|---------------------------|
| | | E_f^* : $2J_f^\pi$: | 666.9 7 ⁻ | 805.93 15 ⁻ | 971.22 $\langle 9^+ \rangle$ | 973.11 7 ⁺ | 1397.34 11 ⁺ | 1600.6 17 ⁻ | 1616.3 19 ⁻ | 1641.42 $\langle 11^+ \rangle$ | 1654.22 $\langle 13^+ \rangle$ | 1805.3 19 ⁺ |
| 952.29(15) | | | 7.1(21) | | | | | | | | | |
| 1113.28(15) | $\langle 9 \rangle^-$ | | 28(9) | | | | | | | | | |
| 1584.18(19) | $\langle 13^+ \rangle$ | | | | 56(22) | | 44(11) | | | | | |
| 1600.6(3) | 17 ⁻ | | | 100 | | | | | | | | |
| 1616.3(3) | 19 ⁻ | | | 100 | | | | | | | | |
| 1621.02(24) | | | | | 100 | | | | | | | |
| 1641.42(24) | $\langle 11^+ \rangle$ | | | | 100 | | | | | | | |
| 1654.22(24) | $\langle 13^+ \rangle$ | | | | 100 | | | | | | | |
| 1721.91(25) | $\langle 11 \rangle$ | | | | | 100 | | | | | | |
| 1804.42(24) | | | | | 100 | | | | | | | |
| 1805.3(3) | 19 ⁺ | | | | | | | ≈ 9 | 91(18) | | | |
| 1860.7(3) | $\langle 17 \rangle^-$ | | | 100 | | | | | | | | |
| 1997.8(4) | $\langle 17^+ \rangle$ | | | | | | | | | | 100 | |
| 2089.5(3) | $\langle 19 \rangle$ | | | 100 | | | | | | | | |
| 2194.3(5) | $\langle 23^+ \rangle$ | | | | | | | | | | | 100 |
| 2249.3(5) | $\langle 21^+ \rangle$ | | | | | | | | | | | 100 |
| 2297.1(4) | $\langle 15^+ \rangle$ | | | | | | | | | 100 | | |
| 2517.8(4) | | | | | | | | 100 | | | | |

Energy levels and branching ratios [94Se10]. Part 3

¹³¹Xe
₅₄

| E^* | $2J^\pi$ | Branching ratios in percentage |
|-----------|-------------------------|----------------------------------|
| [keV] | $E_f^*:$ $2J_f^\pi:$ | 2194.3 $\langle 23^+ \rangle$ |
| 3185.9(6) | | 100 |

Energy levels and branching ratios [92Se04].

¹³²Xe
₅₄

| E^* | J^π | L | σ (τ, n) | ε | I_τ | I_τ | $T_{1/2}$ or | Ref. |
|--------------|---------------------------|---------------|------------------------|---------------|-------------|-------------|----------------------|--------|
| [keV] | | (τ, n) | $\mu\text{b/sr}$ | (τ, n) | <i>rel.</i> | <i>rel.</i> | Γ_{cm} | |
| 0.0 | 0 ⁺ | 1 | 255 | 1.93 | 121(9) | 80(6) | Stable | 79Al14 |
| 667.720(3) | 2 ⁺ | | | | 42(6) | 24(4) | 4.7(2) ps | 96Ot02 |
| 1297.919(13) | 2 ⁺ | | | | 24(3) | 12.9(22) | | 96Ot02 |
| 1440.327(11) | 4 ⁺ | | | | 101(5) | 71(5) | | 96Ot02 |
| 1803.719(17) | 3 ⁺ | | | | 7.0(14) | 10.3(21) | | 96Ot02 |
| 1850(80) | | 0+2 | 98+23 | 0.65,0.77 | 3.9(15) | | | 79Al14 |
| 1963.00(6) | 4 ⁺ | | | | 19.3(20) | 15(3) | | 96Ot02 |
| 1985.654(6) | 2 ⁺ | | | | 24(4) | 25(4) | | 96Ot02 |
| 2040.36(10) | $\langle 5^- \rangle$ | | | | | | | |
| 2110.28(7) | 4 ⁺ | | | | 8.5(16) | 7(4) | | 96Ot02 |
| 2111.85(17) | 6 ⁺ | | | | incl | incl | | |
| 2167.09(15) | 5 ⁺ | | | | 65(11) | 70(7) | | 96Ot02 |
| 2168.8(4) | 1,2 | | | | | | | |
| 2187.22(16) | 2 ⁺ | | | | 20(3) | 49(5) | | 96Ot02 |
| 2214.06(14) | $\langle 7^- \rangle$ | | | | | | 90(6) ns | |
| 2303.43(15) | $\langle 6^+ \rangle$ | | | | 84(15) | 106(7) | | 96Ot02 |
| 2350.65(9) | 5 ⁺ | | | | 58(21) | 50(5) | | 96Ot02 |
| 2353.2(4) | | | | | 12.6(16) | | | 96Ot02 |
| 2394.91(8) | 4 ⁺ | | | | 16.2(16) | 20(4) | | |
| 2424.78(12) | 3 ⁺ | | | | 11.0(14) | 10(3) | | |
| 2469.11(15) | $\langle 3^- \rangle$ | | | | | | | 06Mu04 |
| 2490(50) | | 0+2 | 62+40 | 0.39,1.01 | | | | 79Al14 |
| 2512.1(4) | $\langle 4^+ \rangle$ | | | | | | | |
| 2555.40(22) | $\langle 2^+, 3 \rangle$ | | | | | | | |
| 2583.75(10) | 5 ⁺ | | | | | | | |
| 2588.70(9) | $\langle 4^+ \rangle$ | | | | 25(3) | 39(4) | | 96Ot02 |
| 2613.46(9) | 5 ⁺ | | | | 11.6(22) | 11(3) | | 96Ot02 |
| 2650.4(8) | $\langle 7^- \rangle$ | | | | | | | |
| 2670.01(10) | 3 ⁺ | | | | 30(3) | | | 96Ot02 |
| 2714.4(4) | 1,2 | | | | 14(3) | | | 96Ot02 |
| 2752.27(17) | $\langle 10^+ \rangle$ | | | | 10.8(22) | | 8.39(11) ms | 96Ot02 |
| 2754.44(11) | $\langle 4^+ \rangle$ | | | | | | | |
| 2828.1(9) | $\langle 7, 8, 9 \rangle$ | | | | | | | |
| 2838.86(7) | 5 ⁺ | | | | 27(3) | | | 96Ot02 |
| 2840.10(12) | 4 $\langle + \rangle$ | | | | | | | |

(continued)

¹³²Xe
₅₄

| E^* | J^π | L | σ (τ, n) | ε | I_τ | I_τ | $T_{1/2}$ or | Ref. |
|-------------|----------------------------|---------------|------------------------|---------------|-------------|-------------|----------------------|--------|
| [keV] | | (τ, n) | $\mu\text{b/sr}$ | (τ, n) | <i>rel.</i> | <i>rel.</i> | Γ_{cm} | |
| 2872.6(5) | | | | | | | | |
| 2890.70(11) | $\langle 4^+ \rangle$ | | | | 4.8(9) | | | 96Ot02 |
| 2916.85(13) | 3,4 | | | | 3.9(10) | | | |
| 2935.4(3) | | | | | incl | | | |
| 2958.76(19) | 3,4 | | | | 5.1(10) | | | 96Ot02 |
| 2960.4(12) | $\langle 7, 8, 9 \rangle$ | | | | | | | |
| 3058.14(11) | $\langle 3^+ \rangle$ | | | | | | | |
| 3076.42(17) | $\langle 3^+ \rangle$ | | | | | | | |
| 3084.5(3) | | | | | | | | |
| 3112.09(20) | 3,4 | | | | | | | |
| 3121.7(3) | | | | | | | | |
| 3155.81(22) | $3^+, 4^+$ | | | | 6.4(13) | | | 96Ot02 |
| 3180.8(6) | $\langle 3^- \rangle$ | | | | | | | |
| 3192.78(13) | $\langle 3^+ \rangle$ | | | | | | | |
| 3213.99(19) | 3,4 | | | | | | | |
| 3226.71(20) | | | | | | | | |
| 3237.2(3) | 3,4 | | | | | | | |
| 3243.4(3) | | | | | | | | |
| 3260.9(3) | 3,4 | | | | | | | |
| 3320.4(4) | 3,4 | | | | | | | |
| 3353.35(25) | $\langle 4^+, 5 \rangle$ | | | | | | | |
| 3385.2(6) | 3,4 | | | | | | | |
| 3699.5(7) | | | | | | | | |
| 3734(3) | | | | | | | | |
| 3792.3(5) | | | | | | | | |
| 3826(3) | | | | | | | | |
| 3856(3) | | | | | | | | |
| 3875.3(5) | | | | | | | | |
| 3910(3) | | | | | | | | |
| 3954.2(6) | | | | | | | | |
| 3991(3) | | | | | | | | |
| 4027.0(6) | | | | | | | | |
| 4034(3) | | | | | | | | |
| 4094.5(4) | $\langle 3^-, 4^+ \rangle$ | | | | | | | |
| 4111(3) | | | | | | | | |
| 4148(3) | | | | | | | | |
| 4169(3) | | | | | | | | |
| 4188.6(3) | | | | | | | | |
| 4201(3) | | | | | | | | |

(continued)

¹³²Xe
54

| E^* | J^π | L | σ (τ, n) | ε | I_τ | I_τ | $T_{1/2}$ or | Ref. |
|---------|---------|---------------|------------------------|---------------|-------------|-------------|----------------------|------|
| [keV] | | (τ, n) | $\mu\text{b/sr}$ | (τ, n) | <i>rel.</i> | <i>rel.</i> | Γ_{cm} | |
| 4231(3) | | 79Al14 | 79Al14 | 79Al14 | 96Ot02 | 96Ot02 | | Ref. |

Additional data on this isotope can be found in [02Ja02, 96Ot02, 90Da09].

Abundance: 26.909(68) %.Two measurements of ³He-yield in the (d, τ) proton pickup reaction were performed at 30° and 50° [96Ot02].

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [92Se04]. Part 2

¹³²Xe
54

| E^* | J^π | Branching ratios in percentage | | | | | | | | | | |
|--------------|--------------------------|--------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------|----------------|----------------|--|
| | | E_f^* : 0.0 | 667.7 | 1298 | 1440 | 1804 | 1963 | 1986 | 2040 | 2110.28 | 2111.85 | |
| [keV] | | J_f^π : 0 ⁺ | 2 ⁺ | 2 ⁺ | 4 ⁺ | 3 ⁺ | 4 ⁺ | 2 ⁺ | $\langle 5^- \rangle$ | 4 ⁺ | 6 ⁺ | |
| 667.720(3) | 2 ⁺ | 100 | | | | | | | | | | |
| 1297.919(13) | 2 ⁺ | 6.3(6) | 94(3) | | | | | | | | | |
| 1440.327(11) | 4 ⁺ | | 100 | | | | | | | | | |
| 1803.719(17) | 3 ⁺ | | 36(2) | 58(2) | 6(1) | | | | | | | |
| 1963.00(6) | 4 ⁺ | | 10.5(4) | | 90(3) | | | | | | | |
| 1985.654(6) | 2 ⁺ | 9(2) | 91(12) | 0.34(7) | | | | | | | | |
| 2040.36(10) | $\langle 5^- \rangle$ | | | | 100 | | | | | | | |
| 2110.28(7) | 4 ⁺ | | 11.9(4) | 47(4) | 39(5) | <0.8 | 2.0(2) | | | | | |
| 2111.85(17) | 6 ⁺ | | | | 100 | | | | | | | |
| 2167.09(15) | 5 ⁺ | | | | 100 | | | | | | | |
| 2168.8(4) | 1,2 | 53(21) | 47(11) | | | | | | | | | |
| 2187.22(16) | 2 ⁺ | 8(4) | 92(6) | <40 | | | | | | | | |
| 2214.06(14) | $\langle 7^- \rangle$ | | | | | | | | 100 | | | |
| 2303.43(15) | $\langle 6^+ \rangle$ | | | | 100 | | | | | | | |
| 2350.65(9) | 5 ⁺ | | | | 42(2) | 51(4) | <13 | | | | | |
| 2353.2(4) | | | | | | | | | 100 | | | |
| 2394.91(8) | 4 ⁺ | | 0.35(4) | 0.23(5) | 93(3) | <0.4 | 2.5(3) | | | 3.7(4) | | |
| 2424.78(12) | 3 ⁺ | | 12(1) | <2 | 24(2) | 64(8) | | | | | | |
| 2469.11(15) | $\langle 3^- \rangle$ | | 23(4) | 4.7(8) | 28(3) | | <2.6 | 41(4) | 3.4(8) | | | |
| 2512.1(4) | $\langle 4^+ \rangle$ | | | | | | | | 69(21) | | | |
| 2555.40(22) | $\langle 2^+, 3 \rangle$ | | 44(7) | | 7.0(4) | | | 49(7) | | | | |
| 2583.75(10) | 5 ⁺ | | | | 38(2) | 33(1) | 11(6) | | | 5(1) | | |
| 2588.70(9) | $\langle 4^+ \rangle$ | | 39(2) | 35(2) | 9(2) | 12(2) | | | | 5(2) | | |
| 2613.46(9) | 5 ⁺ | | | | 13(1) | 32(4) | 32(3) | | | | | |
| 2650.4(8) | $\langle 7^- \rangle$ | | | | | | | | 100 | | | |
| 2670.01(10) | 3 ⁺ | | 30(3) | 65(3) | | <0.9 | ≈ 0.5 | 2.1(10) | | 2.3(5) | | |
| 2714.4(4) | 1,2 | 78(23) | | | | ≈ 22 | | | | | | |
| 2754.44(11) | $\langle 4^+ \rangle$ | | 56(4) | 11(2) | 13(2) | | 21(4) | | | | | |
| 2838.86(7) | 5 ⁺ | | | | 54(2) | 3.9(4) | | | | 12(3) | 24(5) | |

(continued)

¹³²Xe
₅₄

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | | |
|----------------|-----------------------------------|--------------------------------|-----------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------------|---------------------------|---------------------------|
| | | E_f^* : J_f^π : | 0.0 0 ⁺ | 667.7 2 ⁺ | 1298 2 ⁺ | 1440 4 ⁺ | 1804 3 ⁺ | 1963 4 ⁺ | 1986 2 ⁺ | 2040 ⟨5 ⁻ ⟩ | 2110.28 4 ⁺ | 2111.85 6 ⁺ |
| 2840.10(12) | 4 ⁽⁺⁾ | | | 17(2) | 1.3(2) | | | 82(3) | | | | |
| 2872.6(5) | | | | | | | | | | 100 | | |
| 2890.70(11) | ⟨4 ⁺ ⟩ | | | 18(3) | 6.9(6) | 1.2(3) | 12(3) | 61(6) | 1.9(6) | | | |
| 2916.85(13) | 3,4 | | | 14.3(9) | 3(2) | 55(4) | 28(7) | | | | | |
| 2935.4(3) | | | | | <15 | | | | | | | |
| 2958.76(19) | 3,4 | | | 4(1) | 18(3) | | | 34(14) | | | 20(6) | |
| 3058.14(11) | ⟨3 ⁺ ⟩ | | | 51(6) | 17(6) | 3(1) | 17(2) | | | | 12(4) | |
| 3076.42(17) | ⟨3 ⁺ ⟩ | | | [3] | [27] | <4 | [58] | | | | [12] | |
| 3084.5(3) | | | | 10(5) | <77 | 90(27) | | | | | | |
| 3112.09(20) | 3,4 | | | 6.8(10) | 19(5) | 26(5) | | | <60 | | <31 | |
| 3121.7(3) | | | | 4.3(11) | | | | | | | | 96(14) |
| 3155.81(22) | 3 ⁺ ,4 ⁺ | | | 0.33(8) | | 23(2) | | | | | | |
| 3180.8(6) | ⟨3 ⁻ ⟩ | | | | | 20(10) | | | | 80(64) | | |
| 3192.78(13) | ⟨3 ⁺ ⟩ | | | 27(3) | | 17(5) | | | | | 24(5) | |
| 3213.99(19) | 3,4 | | | [3] | | | [97] | | | | | |
| 3226.71(20) | | | | | | <21 | | [51] | | | | |
| 3237.2(3) | 3,4 | | | [17] | | | | | | | | |
| 3243.4(3) | | | | <50 | | | | 100 | | | | |
| 3260.9(3) | 3,4 | | | 1.3(4) | | | | | | | | |
| 3320.4(4) | 3,4 | | | 6.6(21) | | 93(21) | | | | | | |
| 3353.35(25) | ⟨4 ⁺ ,5⟩ | | | | | 33(11) | | 16(11) | | | ≤10 | |
| 3385.2(6) | 3,4 | | | 100 | | | | | | | | |
| 3699.5(7) | | x | | | | | 100 | | | | | |
| 3875.3(5) | | | | | <50 | | | | | | | |
| 3954.2(6) | | | | | | | <90 | | | | | |
| 4027.0(6) | | | | | | | | | | <36 | | |
| 4094.5(4) | ⟨3 ⁻ ,4 ⁺ ⟩ | | | | 19(11) | | | | | 29(11) | | |
| 4188.6(3) | | | | | | | 15(8) | | | <21 | | |

Energy levels and branching ratios [92Se04]. Part 3

¹³²Xe
₅₄

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | | |
|----------------|--------------------|--------------------------------|---------------------------|---------------|---------------------------|------------------------------|------------------------------|---------------------------|---------------------------|---------------------------|------------------------------|--------------------------------|
| | | E_f^* : J_f^π : | 2167.09 5 ⁺ | 2168.8 1,2 | 2187.22 2 ⁺ | 2214.06 ⟨7 ⁻ ⟩ | 2303.43 ⟨6 ⁺ ⟩ | 2350.65 5 ⁺ | 2394.91 4 ⁺ | 2424.78 3 ⁺ | 2469.11 ⟨3 ⁻ ⟩ | 2555.40 ⟨2 ⁺ ,3⟩ |
| 2303.43(15) | ⟨6 ⁺ ⟩ | | <14 | | | | | | | | | |
| 2350.65(9) | 5 ⁺ | | 6.3(9) | | | | | | | | | |
| 2512.1(4) | ⟨4 ⁺ ⟩ | | | | 31(21) | | | | | | | |
| 2583.75(10) | 5 ⁺ | | 13(2) | | | | | | | | | |
| 2613.46(9) | 5 ⁺ | | 7.4(6) | | | | <1.1 | 16(1) | | | | |
| 2752.27(17) | ⟨10 ⁺ ⟩ | | | | | 100 | | | | | | |
| 2828.1(9) | ⟨7,8,9⟩ | | | | | 100 | | | | | | |
| 2838.86(7) | 5 ⁺ | | | | | | 3.9(4) | <3 | | | | |

(continued)

¹³²Xe
₅₄

| E^* | J^π | Branching ratios in percentage | | | | | | | | | | |
|-------------|-----------------------------------|--------------------------------|---------------------------|---------------|---------------------------|------------------------------|------------------------------|---------------------------|---------------------------|---------------------------|------------------------------|--------------------------------|
| [keV] | | E_f^* : J_f^π : | 2167.09 5 ⁺ | 2168.8 1,2 | 2187.22 2 ⁺ | 2214.06 ⟨7 ⁻ ⟩ | 2303.43 ⟨6 ⁺ ⟩ | 2350.65 5 ⁺ | 2394.91 4 ⁺ | 2424.78 3 ⁺ | 2469.11 ⟨3 ⁻ ⟩ | 2555.40 ⟨2 ⁺ ,3⟩ |
| 2840.10(12) | 4 ⁽⁺⁾ | | | | | | | | <7.8 | | | |
| 2958.76(19) | 3,4 | | | | 24(24) | | | | | | | |
| 3076.42(17) | ⟨3 ⁺ ⟩ | | | | <12 | | | | | | | |
| 3112.09(20) | 3,4 | | | | | | | | | 48(24) | | |
| 3192.78(13) | ⟨3 ⁺ ⟩ | | | | 11(4) | | | | | | | |
| 3226.71(20) | | | | | | | | | [49] | | | |
| 3237.2(3) | 3,4 | | | | | | | [83] | | | | |
| 3260.9(3) | 3,4 | | | | | | | | <39 | | | |
| 3353.35(25) | ⟨4 ⁺ ,5⟩ | | | | | | 51(15) | <28 | | | | |
| 3792.3(5) | | | | | | | | | 40(24) | | | 60(18) |
| 3954.2(6) | | | | 100 | | | | | | | | |
| 4027.0(6) | | | | 100 | | | | | | | | |
| 4094.5(4) | ⟨3 ⁻ ,4 ⁺ ⟩ | | | 24(14) | | | | | | 11(4) | | 18(5) |
| 4188.6(3) | | | | | | | | | | | 85(21) | |

Energy levels and branching ratios [92Se04]. Part 4

¹³²Xe
₅₄

| E^* | J^π | Branching ratios in percentage | | | | | | | | | | | |
|-------------|--------------------------------|--------------------------------|---------------------------|------------------------------|---------------------------|-----------------------------|---------------------------|------------------------------|---------------------------|------------------------------|----------------|--------|----------------|
| [keV] | | E_f^* : J_f^π : | 2583.75 5 ⁺ | 2588.70 ⟨4 ⁺ ⟩ | 2613.46 5 ⁺ | 2650.4 ⟨7 ⁻ ⟩ | 2670.01 3 ⁺ | 2754.44 ⟨4 ⁺ ⟩ | 2838.86 5 ⁺ | 2890.70 ⟨4 ⁺ ⟩ | 2916.85 3,4 | 2935.4 | 2958.76 3,4 |
| 2838.86(7) | 5 ⁺ | | 1.8(2) | <0.13 | | | | | | | | | |
| 2840.10(12) | 4 ⁽⁺⁾ | | | <1.4 | | | | | | | | | |
| 2890.70(11) | ⟨4 ⁺ ⟩ | | <15 | | | | | <12 | | | | | |
| 2935.4(3) | | | 100 | | | | | | | | | | |
| 2960.4(12) | ⟨7,8,9⟩ | | | | 100 | | | | | | | | |
| 3155.81(22) | 3 ⁺ ,4 ⁺ | | 24(8) | | | | | | 53(8) | | | | |
| 3192.78(13) | ⟨3 ⁺ ⟩ | | | | | | | | | <14 | | | 20(7) |
| 3213.99(19) | 3,4 | | | | | | | | | | | <87 | <43 |
| 3226.71(20) | | | | | | | | | x | | | | |
| 3260.9(3) | 3,4 | | | | | <79 | | | | | 99(23) | | |
| 3875.3(5) | | | | | | | 100 | | | | | | |

Energy levels and branching ratios [95Ra12].

¹³³Xe
₅₄

| E^* [keV] | $2J^\pi$ | L (d,p) | $2j$ | S_{dp} | L (d,t) | σ (d,t) <i>rel.</i> | $T_{1/2}$ or Γ_{cm} | Ref. | Branching ratios in percentage | | | | | |
|----------------|-----------------|--------------|------|----------|--------------|-------------------------------|-------------------------------|--------|--------------------------------|-----------------------|------------------------|-----------------------|-----------------------|--------------------------|
| | | | | | | | | | E_f^* : $2J_f^\pi$: | 0.0 3 ⁺ | 233 11 ⁻ | 263 1 ⁺ | 530 5 ⁺ | 608 ⟨5 ⁺ ⟩ |
| 0.0 | 3 ⁺ | 2 | 3+ | 0.22 | 2 | 0.73 | 5.243(1) d | 66Sc13 | | | | | | |
| 233.221(18) | 11 ⁻ | | | | ⟨5⟩ | 1.44 | 2.19(1) d | 66Sc13 | | 100 | | | | |

(continued)

¹³³Xe
54

| E^* | $2J^\pi$ | L | $2j$ | S_{dp} | L | σ (d,t) | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|--------------|-----------------------------------|-------|------|-----------------|---------------------|----------------|----------------------|--------|---|-----------------------|------------------------|-----------------------|-----------------------|------------------------------|
| [keV] | | (d,p) | | | (d,t) | $rel.$ | Γ_{cm} | | E^*_f : $2J^\pi_\text{f}$: | 0.0 3 ⁺ | 233 11 ⁻ | 263 1 ⁺ | 530 5 ⁺ | 608 $\langle 5 \rangle^+$ |
| 262.700(11) | 1 ⁺ | | | | $\langle 0 \rangle$ | incl | | 66Sc13 | | 100 | | | | |
| 529.869(8) | 5 ⁺ | | | | | | | | | 100 | | 0.14(1) | | |
| 607.87(17) | $\langle 5 \rangle^+$ | | | | | | | | | 100 | | | | |
| 680.257(12) | 3 ⁺ | | | | | | | | | 78(2) | | 18(1) | 3.6(7) | |
| 743.752(21) | 7 ⁻ ,9,11 ⁻ | | | | | | | | | | 100 | | | |
| 875.330(10) | $\langle 7 \rangle^+$ | | | | | | | | | 98(2) | | | 2.2(4) | |
| 911.45(3) | 3 ⁺ ,1 ⁺ | | | | | | | | | 31(4) | | 38(8) | 31(3) | |
| 928.52(20) | 15 ⁻ | | | | | | | | | | 100 | | | |
| 1052.296(19) | 5 ⁺ | | | | | | | | | 90(3) | | 8.2(5) | ≤ 14 | |
| 1071.04(17) | $\langle 7 \rangle^+$ | | | | | | | | | 50(10) | | | | 50(10) |
| 1169.52(20) | $\langle 13 \rangle^-$ | | | | | | | | | | 100 | | | |
| 1236.448(10) | $\langle 7 \rangle^+$ | | | | | | | | | 48(1) | | | 48(1) | |
| 1298.238(8) | 5 ⁺ | | | | | | | | | 62(1) | | 0.23(4) | 12.2(3) | |
| 1350.379(19) | 5 ⁺ | | | | | | | | | 37(1) | | 3.1(4) | 39(2) | |
| 1386.150(15) | 9 ⁺ | | | | | | | | | | | | 100 | |
| 1589.94(3) | 5 ⁺ | 2 | 5+ | 0.13 | | | | 91Kr12 | | 0.7(1) | | | 33(2) | |
| 1609.30(17) | $\langle 9 \rangle^+$ | | | | | | | | | | | | | |
| 1701.4(3) | $\langle 7^+ \rangle$ | | | | | | | | | | | | | 100 |
| 1716.4(3) | $\langle 15^- \rangle$ | | | | | | | | | | | | | |
| 1743.75(20) | | | | | | | | | | | | | | |
| 1789.58(17) | $\langle 11^+ \rangle$ | | | | | | | | | | | | | |
| 1861.8(3) | $\langle 9^+ \rangle$ | | | | | | | | | | | | | |
| 1876.3(3) | 19 ⁻ | | | | | | | | | | | | | |
| 2062.0(3) | | | | | | | | | | | | | | |
| 2092.75(20) | 7 ⁻ -11 ⁻ | | | | | | | | | | | | | |
| 2123.7(4) | $\langle 23^- \rangle$ | | | | | | | | | | | | | |
| 3000 | $\langle 7^+ \rangle$ | | | | | | | | | | | | | |
| | | | | | | | | | 66Sc13 | Ref. | | | | |

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [95Ra12]. Part 2

¹³³Xe
54

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|----------------|-------------------|--------------------------------|-----------------------|-------------------------|--|---------------------------|---------------------------|-----------------------------|------------------------------|---------------------------|-----------------------------|---------------------------|
| | | E_f^* : $2J_f^\pi$: | 680 3 ⁺ | 875 <7> ⁺ | 911 3 ⁺ , 1 ⁺ | 928.52 15 ⁻ | 1052.30 5 ⁺ | 1071.04 <7> ⁺ | 1169.52 <13> ⁻ | 1386.15 9 ⁺ | 1609.30 <9> ⁺ | 1876.3 19 ⁻ |
| 1052.296(19) | 5 ⁺ | | 1.5(8) | | | | | | | | | |
| 1236.448(10) | <7> ⁺ | | 0.64(8) | 3.6(1) | | | | | | | | |
| 1298.238(8) | 5 ⁺ | | 14.5(3) | 8.3(2) | 1.57(12) | | 0.9(2) | | | | | |
| 1350.379(19) | 5 ⁺ | | 11(2) | | 10(1) | | | | | | | |
| 1589.94(3) | 5 ⁺ | | 51(2) | | 5(2) | | 9(2) | | | ≈1 | | |
| 1609.30(17) | <9> ⁺ | | | 100 | | | | | | | | |
| 1716.4(3) | <15> ⁻ | | | | | | | | 100 | | | |

(continued)

¹³³Xe
₅₄

| E^* | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|-------------|------------------------|--------------------------------|-------|-----------------------|------------|--------|---------|-----------------------|------------------------|---------|-----------------------|--------|
| | | $E_f^*:$ | 680 | 875 | 911 | 928.52 | 1052.30 | 1071.04 | 1169.52 | 1386.15 | 1609.30 | 1876.3 |
| [keV] | | $2J_f^\pi:$ | 3^+ | $\langle 7 \rangle^+$ | $3^+, 1^+$ | 15^- | 5^+ | $\langle 7 \rangle^+$ | $\langle 13 \rangle^-$ | 9^+ | $\langle 9 \rangle^+$ | 19^- |
| 1743.75(20) | | | | | | | | | | 100 | | |
| 1789.58(17) | $\langle 11^+ \rangle$ | | | | | | | | | 61(18) | 39(8) | |
| 1861.8(3) | $\langle 9^+ \rangle$ | | | | | | | 100 | | | | |
| 1876.3(3) | 19^- | | | | | 100 | | | | | | |
| 2062.0(3) | | | | | | | | | | | 100 | |
| 2092.75(20) | $7^- - 11^-$ | | | | | | | | | 100 | | |
| 2123.7(4) | $\langle 23^- \rangle$ | | | | | | | | | | | 100 |

Energy levels and branching ratios [94Se07, 81Se18].

¹³⁴Xe
₅₄

| E^* | J^π | S_N | σ (d, ^6Li) | γ_α^2 | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|-------------|-------------------------|---------------------|------------------------------|-------------------|----------------------|--------|--------------------------------|---------------|--------------|---------------|---------------|---------------|
| [keV] | | (d, ^6Li) | $\mu\text{b/sr}$ | [keV] | Γ_{cm} | | E_f^* : J_f^π : | 0.0 0^+ | 847 2^+ | 1614 2^+ | 1731 4^+ | 1920 3^+ |
| 0.0 | 0^+ | 0.031 | 1.85(31) | 0.23 | Stable | 77Mi02 | | | | | | |
| 847.04(2) | 2^+ | 0.086 | 1.27(26) | 0.49 | 1.9(4) ps | 77Mi02 | | 100 | | | | |
| 1613.77(3) | 2^+ | | | | | | | 51(3) | 49(2) | | | |
| 1731.16(3) | 4^+ | | | | | | | | 100 | | | |
| 1919.60(3) | 3^+ | | | | | | | | 95(4) | | 4.9(4) | |
| 1965.5(5) | 7^- | | | | 290(17) ms | | | | | | 100 | |
| 2136.61(4) | 5^+ | | | | | | | | | | 97(3) | 3.0(4) |
| 2272.01(4) | 4^+ | | | | | | | | | | 64.1(16) | |
| 2302.25(6) | $\langle 3,4^+ \rangle$ | | | | | | | 88(8) | | | 12(4) | |
| 2352.97(3) | 4^+ | | | | | | | | 4.5(3) | 69(3) | | 26.9(10) |
| 2408.50(4) | $\langle 5^+ \rangle$ | | | | | | | | | 85(3) | | 15.5(7) |
| 2547.55(4) | $3^+ - 5^+$ | | | | | | | | | 15(2) | | 53(3) |
| 2588.46(3) | 4^+ | | | | | | | 16(1) | 29(1) | 42(1) | | |
| 2653.90(5) | $3^{(+)}$ | | | | | | | 72(3) | 27(2) | 1.9(4) | | |
| 2772.90(7) | $\langle 3,4^+ \rangle$ | | | | | | | 35(6) | 65(6) | | | |
| 2867.37(3) | 4^+ | | | | | | | 0.6(1) | | | 30(2) | 13.2(4) |
| 3083.78(6) | $\langle 3,4^+ \rangle$ | | | | | | | 4(1) | 56(3) | 30(2) | | 10(2) |
| 3255.74(17) | $\langle 3,4^+ \rangle$ | | | | | | | 35(5) | | | | 65(13) |
| 3300.0(3) | | | | | | | | 100 | | | | |
| 3314.5(3) | $\langle 3,4^+ \rangle$ | | | | | | | 64(10) | | | | 36(10) |
| 3360.46(7) | $\langle 3,4^+ \rangle$ | | | | | | | 6.1(8) | | | 18(4) | |
| 3375.39(5) | $\langle 4,5 \rangle$ | | | | | | | | | | 22(2) | |
| 3477.0(3) | | | | | | | | 19(1) | | | | |
| 3492.29(10) | $\langle 3,4^+ \rangle$ | | | | | | | ≈ 5.1 | | | | |
| | | 77Mi02 | 77Mi02 | 77Mi02 | | Ref. | | | | | | |

Additional data on this isotope can be found in [02Ja02, 01Ge07, 00Ko15, 97McZZ].

Abundance: 10.436(29) %.

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [94Se07, 81Se18]. Part 2

¹³⁴Xe
54

| E^* | J^π | Branching ratios in percentage | | | | | | | | | |
|-------------|--------------------------------|--------------------------------|------------------------|------------------------|-----------------------------|---------------------------|------------------------------|---------|---------------------------|-----------------------------|-------------------------------|
| [keV] | | E_f^* : J_f^π : | 2137 5 ⁺ | 2272 4 ⁺ | 2302 ⟨3,4 ⁺ ⟩ | 2352.97 4 ⁺ | 2408.50 ⟨5 ⁺ ⟩ | 2547.55 | 2588.46 4 ⁺ | 2653.90 3 ^{⟨+⟩} | 3314.5 ⟨3,4 ⁺ ⟩ |
| 2272.01(4) | 4 ⁺ | | 36(3) | | | | | | | | |
| 2547.55(4) | 3 ⁺ –5 ⁺ | | 13.8(10) | | | | 18.1(10) | | | | |
| 2588.46(3) | 4 ⁺ | | | | | 13.2(10) | | | | | |
| 2867.37(3) | 4 ⁺ | | 6.0(3) | 37(1) | | 7.4(3) | 4.3(2) | 1.5(1) | 0.47(7) | | |
| 3360.46(7) | ⟨3,4 ⁺ ⟩ | | | | | | | | | 76(5) | |
| 3375.39(5) | ⟨4,5⟩ | | 12(4) | 45(4) | | | 22(2) | | | | |
| 3477.0(3) | | | | | | | | | | | 81(8) |
| 3492.29(10) | ⟨3,4 ⁺ ⟩ | | | | 95(9) | | | | | | |

Energy levels and branching ratios [98Se07].

¹³⁵Xe
54

| E^* [keV] | $2J^\pi$ | L (d,t) | σ (d,t) <i>rel.</i> | σ (d,t) $\mu\text{b/sr}$ | S_N (d,t) | S_N (p,d) | $T_{1/2}$ or Γ_{cm} | Ref. |
|----------------|-----------------------------------|--------------|-------------------------------|------------------------------------|----------------|----------------|--------------------------------------|--------|
| 0.0 | 3 ⁺ | 2 | 1.30 | 3450 | 3.96 | 3.86 | 9.14(2) h | 72Se17 |
| 288.45(2) | 1 ⁺ | 0 | 1.10 | 3330 | 1.86 | 1.65 | | 66Sc13 |
| 526.55(1) | 11 [−] | 5 | 0.31 | 820 | 9.83 | 11.31 | 15.29(5) m | 68Mo21 |
| 1131.51(1) | 7 ⁺ | | | | | | | |
| 1260.42(1) | 5 ⁺ | 2 | 0.26 | | | | | 66Sc13 |
| 1448.36(3) | ⟨3 ⁺ ⟩ | | | | | | | |
| 1457.57(2) | 5 ⁺ | 2 | 0.31 | | | | | 66Sc13 |
| 1543.7(2) | ⟨1 ⁺ ⟩ | 0 | 0.16 | | | | | 66Sc13 |
| 1565.29(2) | 9 ⁺ | 4 | incl | | | | | 66Sc13 |
| 1678.06(1) | ⟨7 ⁺ ⟩ | | | | | | | |
| 1781.39(3) | ⟨11 ⁺ ⟩ | | | | | | | |
| 1791.21(2) | 5 ⁺ | 2 | 0.24 | | | | | 66Sc13 |
| 1894.45(5) | ⟨7,9⟩ | | | | | | | |
| 1927.29(2) | ⟨5 ⁺ ,7 ⁺ ⟩ | | | | | | | |
| 1968.32(2) | ⟨9 ⁺ ⟩ | | | | | | | |
| 2045.89(2) | ⟨5 ⁺ ,7 ⁺ ⟩ | | | | | | | |
| 2048.5(1) | | | | | | | | |
| 2092.94(2) | ⟨7 [−] ,9⟩ | | | | | | | |
| 2112.4(5) | | 2 | 0.21 | | | | | 66Sc13 |
| 2151.5(1) | | | | | | | | |
| 2233.04(2) | ⟨9 ⁺ ⟩ | | | | | | | |
| 2255.48(2) | ⟨7 ⁺ ⟩ | | | | | | | |
| 2357.24(3) | ⟨9 ⁺ ⟩ | | | | | | | |
| 2371.99(4) | 7,9 | | | | | | | |
| 2408.66(3) | ⟨5,7 ⁺ ⟩ | | | | | | | |
| 2447.30(8) | | | | | | | | |
| 2466.11(9) | ⟨7 ⁺ ⟩ | | | | | | | |
| 2475.08(5) | ⟨7 [−] ,9⟩ | | | | | | | |

(continued)

¹³⁵Xe
54

| E^* | $2J^\pi$ | L | σ (d,t) | σ (d,t) | S_N | S_N | $T_{1/2}$ or | Ref. |
|-------------|---------------------|--------|----------------|------------------|--------|--------|----------------------|------|
| [keV] | | (d,t) | <i>rel.</i> | $\mu\text{b/sr}$ | (d,t) | (p,d) | Γ_{cm} | |
| 2477.87(20) | $\langle 5 \rangle$ | 66Sc13 | 66Sc13 | 68Mo21 | 68Mo21 | 72Se17 | | Ref. |

Energy levels and branching ratios [98Se07]. Part 2

¹³⁵Xe
54

| E^* | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|--------------------|----------------------------|--------------------------------|-------------------------|--------------------------|------------------------|------------------------|-------------------------------|------------------------|-------------------------------|--------------------------|---------------------------------|--|
| E_f^* : [keV] | $2J_f^\pi$: | 0.0 3 ⁺ | 288.5 1 ⁺ | 526.6 11 ⁻ | 1131 7 ⁺ | 1260 5 ⁺ | 1448 $\langle 3^+ \rangle$ | 1458 5 ⁺ | 1544 $\langle 1^+ \rangle$ | 1565.3 9 ⁺ | 1678.1 $\langle 7^+ \rangle$ | |
| 288.45(2) | 1 ⁺ | 100 | | | | | | | | | | |
| 526.55(1) | 11 ⁻ | 100 | | | | | | | | | | |
| 1131.51(1) | 7 ⁺ | 100 | | | | | | | | | | |
| 1260.42(1) | 5 ⁺ | 97.0(6) | 3.0(1) | | | | | | | | | |
| 1448.36(3) | $\langle 3^+ \rangle$ | 75(7) | 25(6) | | | | | | | | | |
| 1457.57(2) | 5 ⁺ | 90.5(6) | 9.1(3) | | 0.03(2) | 0.34(3) | | | | | | |
| 1543.7(2) | $\langle 1^+ \rangle$ | 82(33) | 18(10) | | | | | | | | | |
| 1565.29(2) | 9 ⁺ | | | 93(1) | 6.5(2) | 0.37(4) | | | | | | |
| 1678.06(1) | $\langle 7^+ \rangle$ | 43.0(9) | | <0.01 | 32.2(4) | 15.9(1) | 1.08(1) | 7.9(1) | | ≈ 0.057 | | |
| 1781.39(3) | $\langle 11^+ \rangle$ | | | 1.3(7) | 99(6) | | | | | | | |
| 1791.21(2) | 5 ⁺ | 86.8(3) | 12.1(3) | | | 0.3(2) | 0.010(7) | 0.42(3) | 0.32(10) | | ≈ 0.08 | |
| 1894.45(5) | $\langle 7,9 \rangle$ | | | 100 | | | | | | | | |
| 1927.29(2) | $\langle 5^+, 7^+ \rangle$ | 58(2) | | | 5(5) | | | | | 37(5) | | |
| 1968.32(2) | $\langle 9^+ \rangle$ | | | 0.2(1) | 85(1) | 8.4(4) | | | | 2.94(4) | 3.9(3) | |
| 2045.89(2) | $\langle 5^+, 7^+ \rangle$ | 79(2) | | | | 14(2) | | 5(1) | | | | |
| 2048.5(1) | | | | 100 | | | | | | | | |
| 2092.94(2) | $\langle 7^-, 9 \rangle$ | | | 73(2) | 8.2(15) | | | | | | 17.0(9) | |
| 2112.4(5) | | 100 | | | | | | | | | | |
| 2151.5(1) | | 100 | | | | | | | | | | |
| 2233.04(2) | $\langle 9^+ \rangle$ | | | 56(2) | 21.9(4) | 16.4(4) | | | | | | |
| 2255.48(2) | $\langle 7^+ \rangle$ | 13.0(5) | | | 76.2(6) | 3.3(6) | 1.0(4) | 3.7(6) | | 2.7(3) | | |
| 2357.24(3) | $\langle 9^+ \rangle$ | | | 42(1) | 3.1(13) | 6.4(11) | | | | | 4.0(11) | |
| 2371.99(4) | 7,9 | | | 0.6(3) | 99(3) | | | | | | | |
| 2408.66(3) | $\langle 5, 7^+ \rangle$ | 93(3) | | | | | 4(3) | | | | | |
| 2447.30(8) | | | | | 47(12) | | | | | | | |
| 2466.11(9) | $\langle 7^+ \rangle$ | 57(2) | | | 25(7) | | | | | | | |
| 2475.08(5) | $\langle 7^-, 9 \rangle$ | | | 45(4) | 55(8) | | | | | | | |
| 2477.87(20) | $\langle 5 \rangle$ | 10.0(21) | 90(18) | | | | | | | | | |

Energy levels and branching ratios [98Se07]. Part 3

¹³⁵Xe
₅₄

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | |
|----------------|----------------------------|--------------------------------|----------------------------------|-----------------|--------------------------------------|---------|------------------------------------|
| | | $E_f^*:$ $2J_f^\pi:$ | 1781.4 $\langle 11 \rangle^+$ | 1791.2 5^+ | 1927.3 $\langle 5^+, 7^+ \rangle$ | 2048.6 | 2092.9 $\langle 7^-, 9 \rangle$ |
| 2045.89(2) | $\langle 5^+, 7^+ \rangle$ | | | 2.1(8) | | | |
| 2092.94(2) | $\langle 7^-, 9 \rangle$ | | | | 1.77(15) | | |
| 2233.04(2) | $\langle 9^+ \rangle$ | | 4.3(2) | | 1.29(4) | 0.32(3) | |
| 2255.48(2) | $\langle 7^+ \rangle$ | | | | | | 0.21(6) |
| 2357.24(3) | $\langle 9^+ \rangle$ | | 9(2) | | 22(2) | | 13.3(2) |
| 2408.66(3) | $\langle 5, 7^+ \rangle$ | | | 4(2) | | | |
| 2447.30(8) | | | | 53(11) | | | |
| 2466.11(9) | $\langle 7^+ \rangle$ | | 18(7) | | | | |

Energy levels and branching ratios [02So05].

¹³⁶Xe
₅₄

| E^* [keV] | J^π | L | β_L | $T_{1/2}$ or Γ_{cm} | Ref. | Branching ratios in percentage | | | | | |
|----------------|----------------------------|-----|-----------|--------------------------------------|--------|--------------------------------|--------------|---------------|---------------|---------------|--------------------|
| | | | | | | $E_f^*:$ $J_f^\pi:$ | 0.0 0^+ | 1313 2^+ | 1694 4^+ | 1892 6^+ | 2126 $3^+, 4^+$ |
| 0.0 | 0^+ | | | >360 yr | | | | | | | |
| 1313.03(1) | 2^+ | 2 | 0.061 | 0.36(1) ps | 72Se17 | | 100 | | | | |
| 1694.39(1) | 4^+ | 4 | 0.054 | 1.29(2) ns | 72Se17 | | | 100 | | | |
| 1891.70(1) | 6^+ | 6 | 0.053 | 2.9(1) μ s | 72Se17 | | | | 100 | | |
| 1920(15)* | | 2 | 0.026 | | 70Mo11 | | | | | | |
| 2125.68(6) | $3^+, 4^+$ | | | | | | | 81(24) | 19(7) | | |
| 2261.53(3) | 6^+ | 6 | 0.045 | ≤ 50 ps | 72Se17 | | | | | 100 | |
| 2289.53(9) | 2^+ | 2 | 0.025 | | 72Se17 | | 80(4) | 20(2) | | | |
| 2414.74(12) | 2^+ | 2 | 0.033 | | 72Se17 | | 93(5) | 6.6(10) | | | |
| 2444.39(6) | 5 | 4 | 0.050 | ≤ 50 ps | 72Se17 | | | | 73(5) | 10.7(7) | 7(1) |
| 2465.03(11) | $\langle 4^+ \rangle$ | | incl | | 72Se17 | | | | 83(5) | | 17(3) |
| 2559.87(7) | 4^+ | 4 | 0.036 | | 72Se17 | | | 59(3) | 16(1) | | 20(2) |
| 2582.4(10) | 0^+ | | | | | x | | | | | |
| 2608.43(7) | 4^+ | | | ≤ 50 ps | | | | | 36(2) | 10.1(7) | 18(1) |
| 2634.16(7) | 2^+ | 2 | 0.025 | | 72Se17 | | 19(1) | 72(5) | | | |
| 2849.43(10) | $2^{\langle + \rangle}$ | | | | | | 2.5(10) | 97(6) | | | |
| 2866.7(3) | $\langle 8^+ \rangle$ | | | | | | | | | 100 | |
| 2869.00(11) | $2^{\langle + \rangle}$ | | | | | | 83(7) | 9.9(7) | | | |
| 2979.07(22) | 2^+ | 2 | 0.035 | | 72Se17 | | 64(6) | 36(6) | | | |
| 3160(20) | | | | | | | | | | | |
| 3211.91(20) | $1, 2^{\langle + \rangle}$ | | | | | | 80(6) | | | | |
| 3229.4(3) | $\langle 8^+ \rangle$ | | | | | | | | | | |
| 3275.22(13) | 3^- | 3 | 0.122 | | 72Se17 | | | 100 | | | |
| 3310(20) | | | | | | | | | | | |
| 3484.5(3) | $\langle 10^+ \rangle$ | | | | | | | | | | |
| 3630(20) | | | | | | | | | | | |
| 3780(20) | | | | | | | | | | | |
| 3830.04(17) | $\langle 6^+, 5 \rangle$ | | | | | | | | 64(4) | 19(4) | |

(continued)

¹³⁶Xe
54

| E^* | J^π | L | β_L | $T_{1/2}$ or Ref. | $E_f^*:$ $J_f^\pi:$ | Branching ratios in percentage | | | | |
|-------------|--------------------------|--------|-----------|----------------------|------------------------|--------------------------------|------------------------|------------------------|------------------------|---|
| [keV] | | (p,p') | | Γ_{cm} | | 0.0 0 ⁺ | 1313 2 ⁺ | 1694 4 ⁺ | 1892 6 ⁺ | 2126 3 ⁺ , 4 ⁺ |
| 3830.2(4) | $\langle 9^- \rangle$ | | | | | | | | | |
| 3872.81(20) | $\langle 6^+, 5 \rangle$ | | | | | | | 100 | | |
| 3873.13(14) | $2^{(+)}-4^{(+)}$ | | | | | | | | | |
| 4057.60(14) | $\langle 6^+, 5 \rangle$ | | | | | | | 29(3) | 5(4) | |
| 4150(20) | | | | | | | | | | |
| 4269.33(9) | $2^{(+)}$ | | | | | 7.5(4) | 15.3(9) | | | |
| 4320.1(10) | 0^+ | | | | | x | | | | |
| 4380(20) | | | | | | | | | | |
| 4381.0(11) | $\langle 8^+ \rangle$ | | | | | | | | | |
| 4454.07(17) | $1^{(-)}, 2^{(+)}$ | | | | | 3.0(8) | 52(3) | | | |
| 4474.01(22) | $1, 2^{(+)}$ | | | | | 36(4) | | | | |
| 4545.0(4) | $1, 2^{(+)}$ | | | | | 38(7) | | | | |
| 4711.2(4) | $1, 2^{(+)}$ | | | | | 100 | | | | |
| 4820(20) | | | | | | | | | | |
| 4857.7(5) | $\langle 11^- \rangle$ | | | | | | | | | |
| 4947.42(24) | | | | | | | 27(3) | | | |
| 5016.99(21) | $1, 2^{(+)}$ | | | | | 18(2) | | | | |
| 5100(20) | | | | | | | | | | |
| 5142.2(5) | $\langle 13^- \rangle$ | | | | | | | | | |
| 5150(20) | | | | | | | | | | |
| 5217.8(4) | $2^{(+)}$ | | | | | 22(8) | | | | |
| 5321.05(24) | $1, 2^{(+)}$ | | | | | 31(6) | | | | 69(8) |
| 5360(20) | | | | | | | | | | |
| 5420(20) | | | | | | | | | | |
| 5560(20) | | | | | | | | | | |
| 5608.2(3) | $1, 2^{(+)}$ | | | | | 62(14) | | | | 38(4) |
| 5670(20) | | | | | | | | | | |
| 5760.2(4) | $2^{(+)}-4^{(+)}$ | | | | | | | | | 41(5) |
| 5800.1(3) | $1, 2^{(+)}$ | | | | | 43(9) | | | | 57(5) |
| 5832.2(6) | $2^{(+)}-4^{(+)}$ | | | | | | 15(7) | | | |
| 5861.6(4) | $4^{(+)}-6^{(+)}$ | | | | | | | | | 59(9) |
| 5870.8(12) | $1, 2^{(+)}$ | | | | | 100 | | | | |
| 5952.0(11) | $\langle 12^+ \rangle$ | | | | | | | | | |
| 5968.5(10) | $1, 2^{(+)}$ | | | | | 100 | | | | |
| 6013(1) | $1, 2^{(+)}$ | | | | | 100 | | | | |
| 6052.6(4) | $1, 2^{(+)}$ | | | | | 33(9) | 67(9) | | | |
| 6091.2(3) | | | | | | | | 9(3) | | |
| 6103.9(3) | $1^{(-)}, 2^{(+)}$ | | | | | 57(11) | | | | |
| 6114.5(7) | $1, 2^{(+)}$ | | | | | 100 | | | | |
| 6126.4(5) | $1, 2^{(+)}$ | | | | | 100 | | | | |
| 6169.9(8) | $1, 2^{(+)}$ | | | | | 100 | | | | |
| 6173.0(15) | $\langle 13^+ \rangle$ | | | | | | | | | |
| 6186.36(25) | $4^{(+)}$ | | | | | | 6(2) | | | |
| 6200.1(13) | $1, 2^{(+)}$ | | | | | 100 | | | | |
| 6253.5(8) | $1, 2^{(+)}$ | | | | | 100 | | | | |

(continued)

¹³⁶Xe
54

| E^* | J^π | L | β_L | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|-------------|------------------------------------|--------|-----------|----------------------|------|--------------------------------|-----------------------|------------------------|------------------------|------------------------|--|
| [keV] | | (p,p') | | Γ_{cm} | | E_f^* : J_f^π : | 0.0 0 ⁺ | 1313 2 ⁺ | 1694 4 ⁺ | 1892 6 ⁺ | 2126 3 ⁺ ,4 ⁺ |
| 6290(20) | | | | | | | | | | | |
| 6409.0(8) | 1,2 ⁽⁺⁾ | | | | | | 41(15) | | | | |
| 6412.3(5) | 3 ⁽⁺⁾ ,4 ⁽⁺⁾ | | | | | | | | | | |
| 6624.05(19) | X ⁽⁻⁾ | | | | | | | | 21(2) | | |
| | | 72Se17 | | | Ref. | | | | | | |

Additional data on this isotope can be found in [02Ja02, 01Er09, 00Po14, 00Ko15].

Abundance: 8.857(33) %.

* Not observed by other groups; therefore not adopted in [02So05].

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [02So05]. Part 2

¹³⁶Xe
54

| E^* | J^π | Branching ratios in percentage | | | | | | | | | | |
|-------------|------------------------------------|--------------------------------|------------------------|------------------------|------------------------|--------------|------------------------------|---------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------|
| [keV] | | E_f^* : J_f^π : | 2261 6 ⁺ | 2289 2 ⁺ | 2415 2 ⁺ | 2444.39 5 | 2465.03 <4 ⁺ > | 2559.87 4 ⁺ | 2608.43 4 ⁺ | 2634.16 2 ⁺ | 2849.43 2 ⁽⁺⁾ | 2866.7 <8 ⁺ > |
| 2444.39(6) | 5 | | 9(1) | | | | | | | | | |
| 2559.87(7) | 4 ⁺ | | | 5.3(14) | | | | | | | | |
| 2608.43(7) | 4 ⁺ | | 31(2) | | 4(1) | | | | | | | |
| 2634.16(7) | 2 ⁺ | | | 6.9(6) | 2.4(2) | | | | | | | |
| 2869.00(11) | 2 ⁽⁺⁾ | | | | | | | 7.1(7) | | | | |
| 3211.91(20) | 1,2 ⁽⁺⁾ | | | | | | | | | | 20(3) | |
| 3229.4(3) | <8 ⁺ > | | 100 | | | | | | | | | |
| 3484.5(3) | <10 ⁺ > | | | | | | | | | | | 38.5 |
| 3830.04(17) | <6 ⁺ ,5> | | | | 17(3) | | | | | | | |
| 3873.13(14) | 2 ⁽⁺⁾ -4 ⁽⁺⁾ | | | 41(5) | | | | | | | | |
| 4057.60(14) | <6 ⁺ ,5> | | 49(3) | | | 18(2) | | | | | | |
| 4269.33(9) | 2 ⁽⁺⁾ | | | 2.8(4) | | | | 15(1) | | 7.9(9) | | |
| 4454.07(17) | 1 ⁽⁻⁾ ,2 ⁽⁺⁾ | | | | 12(2) | | | | | 16(2) | | |
| 4474.01(22) | 1,2 ⁽⁺⁾ | | | | | | | | | | 64(9) | |
| 4545.0(4) | 1,2 ⁽⁺⁾ | | | | | | | | | 62(14) | | |
| 4947.42(24) | | | 21(3) | | | | | | | 15(3) | | |
| 5016.99(21) | 1,2 ⁽⁺⁾ | | | 25(12) | | | | | | 44(6) | 12(11) | |
| 5217.8(4) | 2 ⁽⁺⁾ | | | | | | | 78(11) | | | | |
| 5760.2(4) | 2 ⁽⁺⁾ -4 ⁽⁺⁾ | | | | | | | 16(7) | | | | |
| 5832.2(6) | 2 ⁽⁺⁾ -4 ⁽⁺⁾ | | | | | | | 85(20) | | | | |
| 5861.6(4) | 4 ⁽⁺⁾ -6 ⁽⁺⁾ | | 41(9) | | | | | | | | | |
| 6091.2(3) | | | | | | 58(5) | | | 32(4) | | | |
| 6186.36(25) | 4 ⁽⁺⁾ | | 24(4) | | | | | 50(4) | | | | |
| 6409.0(8) | 1,2 ⁽⁺⁾ | | | | | | | | | 59(26) | | |
| 6412.3(5) | 3 ⁽⁺⁾ ,4 ⁽⁺⁾ | | | | 67(9) | | | | | | | |
| 6624.05(19) | X ⁽⁻⁾ | | | 8(2) | | | | 30(4) | | | 5(2) | |

Energy levels and branching ratios [02So05]. Part 3

¹³⁶Xe
₅₄

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | |
|----------------|-------------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------------------|--------------------------|---------------------------|---------------------------|---------|---------------------------|---------------------------|
| | | E_f^* : J_f^π : | 2869.00 2 ⁽⁺⁾ | 2979.07 2 ⁺ | 3211.91 1,2 ⁽⁺⁾ | 3229.4 8 ⁺ | 3275.22 3 ⁻ | 3484.5 10 ⁺ | 3873.13 | 4857.7 11 ⁻ | 5952.0 12 ⁺ |
| 3484.5(3) | 10 ⁺ | | | | | 62 | | | | | |
| 3830.2(4) | 9 ⁻ | | | | | 100 | | | | | |
| 3873.13(14) | 2 ⁽⁺⁾ -4 ⁽⁺⁾ | | | | | | 59(6) | | | | |
| 4269.33(9) | 2 ⁽⁺⁾ | | 2.3(6) | | 6(1) | | 34(2) | | 9(1) | | |
| 4381.0(11) | 8 ⁺ | | | | | 100 | | | | | |
| 4454.07(17) | 1 ⁽⁻⁾ , 2 ⁽⁺⁾ | | | | | | 17(3) | | | | |
| 4857.7(5) | 11 ⁻ | | | | | | | 100 | | | |
| 4947.42(24) | | | | 37(6) | | | | | | | |
| 5142.2(5) | 13 ⁻ | | | | | | | 26.7 | | 73 | |
| 5760.2(4) | 2 ⁽⁺⁾ -4 ⁽⁺⁾ | | | | 43(9) | | | | | | |
| 5952.0(11) | 12 ⁺ | | | | | | | | | 100 | |
| 6103.9(3) | 1 ⁽⁻⁾ , 2 ⁽⁺⁾ | | | | | | 43(6) | | | | |
| 6173.0(15) | 13 ⁺ | | | | | | | | | | 100 |
| 6186.36(25) | 4 ⁽⁺⁾ | | | | | | | | 20(4) | | |
| 6412.3(5) | 3 ⁽⁺⁾ , 4 ⁽⁺⁾ | | | | 33(14) | | | | | | |
| 6624.05(19) | X ⁽⁻⁾ | | | | | | 35(4) | | | | |

Energy levels and branching ratios [94Tu02].

¹³⁷Xe
₅₄

| E^* [keV] | $2J^\pi$ | L | S_N | σ (d,p) $\mu\text{b/sr}$ | σ (d,p) $\mu\text{b/sr}$ | S' | $T_{1/2}$ or Γ_{cm} | Ref. | Branching ratios in percentage | | | | |
|----------------|------------------------------------|-----|-------|------------------------------------|------------------------------------|------|--------------------------------------|--------|--------------------------------|-----------------------|-------------------------|---------------------------|----------------------------------|
| | | | | | | | | | E_f^* : $2J_f^\pi$: | 0.0 7 ⁻ | 601.0 3 ⁻ | 986.2 1 ⁽⁻⁾ | 1218 1220 9 ⁽⁻⁾ |
| 0.0 | 7 ⁻ | 3 | 0.70* | 5350 | 3520 | 4.65 | 3.818(13) m | 68Mo21 | | | | | |
| 601.05(7) | 3 ⁻ | 1 | 0.41 | 4810 | 4600 | 1.48 | <0.25 ns | 68Mo21 | 100 | | | | |
| 986.20(10) | 1 ⁽⁻⁾ | 1 | 0.13 | 1640 | 1680 | 0.52 | | 68Mo21 | | | 100 | | |
| 1218.00(10) | | | | 200 | | | | | 100 | | | | |
| 1220.07(15) | 9 ⁽⁻⁾ | 5 | 0.31 | 1530 | | | | 68Mo21 | 100 | | | | |
| 1302.73(7) | 5 ⁻ | 3 | 0.24 | | 2120 | 0.64 | | 68Mo21 | 89 | 9 | | 2 | |
| 1461.28(18) | 1,3 | 3 | 0.16 | 1000 | | | | 68Mo21 | | | 100 | | |
| 1512.16(7) | | | | | | | | | 100 | | | | |
| 1534.32(7) | 5 ⁽⁻⁾ | | | | | | | | 100 | | | | |
| 1621.1(2) | 11,13 ⁻ | | | 180 | | | | | | | | | 100 |
| 1668.13(15) | 1,3 | | | | | | | | | | 60 | 40 | |
| 1715.55(10) | 3 ⁻ , 5, 7 ⁻ | | | 320 | | | | | 59 | 27 | | | |
| 1752.56(15) | | | | | | | | | | | | | 100 |
| 1766.17(10) | 3 ⁻ , 5, 7 ⁻ | | | | | | | | 78 | 6 | | | |
| 1796.08(15) | | | | | | | | | | | | 40 | 53 |
| 1808.75(10) | | | | | | | | | 100 | | | | |
| 1820.56(10) | | | | | | | | | 100 | | | | |
| 1841.49(25) | 3 ⁽⁻⁾ | 2 | 0.20 | 410 | 4300 | 1.20 | | 68Mo21 | 23 | | | | |
| 1849.69(10) | 3 ⁻ , 5, 7 ⁻ | | | | | | | | 21 | 54 | | | |
| 1873.13(10) | | | | | | | | | 80 | | | 7 | |

(continued)

¹³⁷Xe
₅₄

| E^* [keV] | $2J^\pi$ | L (d,p) | S_N (d,p) | σ (d,p) $\mu\text{b/sr}$ | σ (d,p) $\mu\text{b/sr}$ | S' | $T_{1/2}$ or Γ_{cm} | Ref. | Branching ratios in percentage | | | | | |
|----------------|--------------------------|---------------------|----------------|------------------------------------|------------------------------------|------|--------------------------------------|--------|--------------------------------|-----------------------|-------------------------|--------------------------------|------|-------------------------------|
| | | | | | | | | | E_f^* : $2J_f^\pi$: | 0.0 7 ⁻ | 601.0 3 ⁻ | 986.2 $\langle 1 \rangle^-$ | 1218 | 1220 $\langle 9 \rangle^-$ |
| 1879.26(20) | | | | | | | | | | 19 | | | | 81 |
| 1898.3(3) | | | | | | | | | | 100 | | | | |
| 1926.4(3) | | | | 270 | | | | | | 100 | | | | |
| 1935.2(3) | | | | incl | | | 8.1(4) ns | | | | | | | |
| 1936.05(10) | $\langle 3^- \rangle$ | | | | | | | | | 19 | 21 | 29 | | |
| 1991.18(15) | | | | | | | | | | 20 | | | 80 | |
| 1997.06(7) | | | | | | | | | | 85 | | | | |
| 2010.80(17) | | | | | | | | | | | 100 | | | |
| 2013.1(3) | | | | | | | | | | 100 | | | | |
| 2029.8(7) | | | | 350 | | | | | | 85 | | | 11 | |
| 2088.0(3) | | | | | | | | | | | | | 54 | 46 |
| 2089.67(25) | | | | | | | | | | | 72 | 28 | | |
| 2099.97(10) | | | | | | | | | | 51 | | | 36 | |
| 2114.0(4) | | | | 290 | | | | | | 100 | | | | |
| 2144.32(25) | | | | | | | | | | | 53 | 47 | | |
| 2147.00(20) | | | | | | | | | | 37 | | | | 63 |
| 2155.11(20) | | | | 210 | | | | | | | 48 | | 41 | |
| 2191.19(15) | | | | incl | | | | | | 42 | | | 32 | |
| 2196.15(15) | $\langle 1^-, 3 \rangle$ | | | | | | | | | | | | | |
| 2229.97(15) | | | | | | | | | | 100 | | | | |
| 2237.76(25) | | | | | | | | | | 32 | | | | |
| 2244.09(15) | | | | | | | | | | | | | | |
| 2281.59(20) | | 1 | 0.20 | 2260 | | | | 68Mo21 | | | 100 | | | |
| 2345.65(15) | | | | | | | | | | 40 | | | 49 | |
| 2356.28(15) | | | | | | | | | | 45 | 55 | | | |
| 2368.32(15) | | | | | | | | | | 29 | | | 71 | |
| 2380.30(15) | | | | | | | | | | 100 | | | | |
| 2422.70(10) | | $\langle 1 \rangle$ | 0.22 | 1390 | | | | 68Mo21 | | 100 | | | | |
| 2444.0(3) | | | | | | | | | | | | | | 100 |
| 2452.4(3) | 1,3 | | | | | | | | | | | 100 | | |
| 2474.84(20) | | | | | | | | | | 53 | | | 47 | |
| 2490.38(10) | $\langle 3^- \rangle$ | | | | 2100 | 0.55 | | 66Sc13 | | 31 | 9 | 37 | | |
| 2566.9(6) | | | | | | | | | | 100 | | | | |
| 2571.09(15) | | | | | | | | | | | | | | 100 |
| 2608.8(5) | | | | | | | | | | | [100] | | | |
| 2629.70(10) | | $\langle 1 \rangle$ | 0.04 | 230 | 1380 | 0.36 | | 68Mo21 | | 92 | | | | |
| 2671.59(20) | | | | | | | | | | 100 | | | | |
| 2676.30(20) | | | | | | | | | | 22 | | | | 78 |
| 2726.14(20) | | | | | | | | | | 100 | | | | |
| 2829.8(3) | | 3 | 0.26 | 1820 | 1890 | 0.45 | | 68Mo21 | | 100 | | | | |
| 2844.50(15) | | | | | | | | | | | 100 | | | |
| 2909.8(4) | | | | | | | | | | | | | | |
| 2922.6(3) | | | | | | | | | | 100 | | | | |
| 2960.3(3) | | | | | | | | | | 100 | | | | |
| 2983.5(3) | | | | | | | | | | 100 | | | | |

(continued)

¹³⁷Xe
54

| E^* | $2J^\pi$ | L | S_N | σ (d,p) | σ (d,p) | S' | $T_{1/2}$ or Ref. | Branching ratios in percentage | | | | | |
|-------------|----------|-------|-------|------------------|------------------|------|----------------------|---|-----------------------|-------------------------|--------------------------------|-------------------------------|-------------------------------|
| [keV] | | (d,p) | (d,p) | $\mu\text{b/sr}$ | $\mu\text{b/sr}$ | | Γ_{cm} | E_{f}^* : $2J_{\text{f}}^\pi$: | 0.0 7 ⁻ | 601.0 3 ⁻ | 986.2 $\langle 1 \rangle^-$ | 1218 $\langle 9 \rangle^-$ | 1220 $\langle 9 \rangle^-$ |
| 2993.9(3) | | | | | | | | | | | | | 100 |
| 3022.9(3) | | | | | | | | | 7 | | | 57 | |
| 3117.6(3) | | | | | | | | | 100 | | | | |
| 3254.0(4) | | | | | | | | | | | | 100 | |
| 3263.1(3) | | | | | | | | | | | | | |
| 3276.72(20) | | | | | | | | | 15 | | | 53 | |
| 3287.6(3) | | | | | | | | | | | | 100 | |
| 3353.0(4) | | | | | | | | | 100 | | | | |
| 3417.1(5) | | | | | | | | | 100 | | | | |
| 3458.62(15) | | | | | | | | | 88 | | | | |
| 3500.7(5) | | | | | | | | | 15 | 85 | | | |
| 3540.6(5) | | | | | | | | | | | | | 100 |
| 3544(4) | | | | | | | | | | 100 | | | |
| 3570.13(15) | | | | | | | | | 100 | | | | |
| 3571.69(25) | | | | | | | | | | | | | 100 |
| 3670.6(4) | | | | | | | | | 100 | | | | |
| 3729.66(20) | | | | | | | | | 89 | | | | |
| 3795.43(20) | | | | | | | | | 47 | 42 | | | |
| 3800.7(3) | | | | | | | | | 100 | | | | |
| 3862.5(3) | | | | | | | | | 61 | 15 | | | |
| 3866.2(3) | | | | | | | | | 77 | | | | |
| 3911.27(20) | | | | | | | | | 85 | | | | |
| 3986.9(3) | | | | | | | | | 20 | | | | 25 |
| 3996.3(3) | | | | | | | | | 41 | | | | |
| 4016.2(8) | | | | | | | | | 100 | | | | |
| 4025.73(25) | | | | | | | | | | | | 30 | |
| 4028.92(15) | | | | | | | | | x | | | | |
| 4038.96(15) | | | | | | | | | 100 | | | | |
| 4064.6(6) | | | | | | | | | 100 | | | | |
| 4083.87(15) | | | | | | | | | 100 | | | | |
| 4103.3(3) | | | | | | | | | 100 | | | | |
| 4105.0(6) | | | | | | | | | 100 | | | | |
| 4129.99(15) | | | | | | | | | 100 | | | | |
| 4140.98(15) | | | | | | | | | 100 | | | | |
| 4153(4) | | | | | | | | | | | | | |
| 4160.94(15) | | | | | | | | | 85 | | | 15 | |
| 4173.11(15) | | | | | | | | | 100 | | | | |
| 4180.8(16) | | | | | | | | | | | | | |
| 4189.0(7) | | | | | | | | | 100 | | | | |
| 4199.1(7) | | | | | | | | | 100 | | | | |
| 4211.6(2) | | | | | | | | | 100 | | | | |
| 4260.4(4) | | | | | | | | | 100 | | | | |
| 4270.3(4) | | | | | | | | | 100 | | | | |
| 4276.53(15) | | | | | | | | | 84 | | | | |
| 4282.6(14) | | | | | | | | | | | | | |

(continued)

 $^{137}_{54}\text{Xe}$

| E^* | $2J^\pi$ | L | S_N | σ (d,p) | σ (d,p) | S' | $T_{1/2}$ or Ref. | $E_f^*:$ $2J_f^\pi:$ | Branching ratios in percentage | | | | |
|-------------|------------------|-------|-------|------------------|------------------|------|----------------------|-------------------------|--------------------------------|-------------------------|---------------------------|------|--------------------------|
| [keV] | | (d,p) | (d,p) | $\mu\text{b/sr}$ | $\mu\text{b/sr}$ | | Γ_{cm} | | 0.0 7 ⁻ | 601.0 3 ⁻ | 986.2 ⟨1⟩ ⁻ | 1218 | 1220 ⟨9⟩ ⁻ |
| 4288.1(8) | X ⁽⁺⁾ | | | | | | | | | 100 | | | |
| 4298.3(5) | | | | | | | | | | 100 | | | |
| 4318.2(5) | | | | | | | | | | 100 | | | |
| 4332.78(15) | | | | | | | | | | 100 | | | |
| 4346.5(12) | | | | | | | | | | | | | |
| 4350.5(6) | | | | | | | | | | 100 | | | |
| 4379.7(2) | | | | | | | | | | 100 | | | |
| 4380.2(5) | | | | | | | | | | 100 | | | |
| 4399.8(8) | | | | | | | | | | | | | |
| 4402.78(15) | | | | | | | | | | 100 | | | |
| 4420.7(10) | | | | | | | | | | 100 | | | |
| 4424.7(6) | | | | | | | | | | 100 | | | |
| 4443.1(13) | | | | | | | | | | | | | |
| 4477.8(3) | | | | | | | | | | 100 | | | |
| 4489.4(8) | | | | | | | | | | 100 | | | |
| 4501.9(6) | | | | | | | | | | 100 | | | |
| 4505.2(10) | | | | | | | | | | | | | |
| 4527.2(16) | | | | | | | | | | | | | |
| 4543.3(6) | | | | | | | | | 100 | | | | |
| 4543.6(20) | | | | | | | | | | | | | |
| 4559.9(4) | | | | | | | | | 100 | | | | |
| 4584.6(13) | | | | | | | | | | | | | |
| 4609.3(4) | | | | | | | | | 100 | | | | |
| 4631.1(18) | | | | | | | | | | | | | |
| 4680.6(7) | | | | | | | | | 100 | | | | |
| 4685.8(10) | | | | | | | | | 100 | | | | |
| 4712.7(18) | | | | | | | | | | | | | |
| 4750.3(10) | | | | | | | | | 100 | | | | |
| 4758.0(5) | | | | | | | | | 100 | | | | |
| 4772.6(9) | | | | | | | | | | | | | |
| 4784.7(6) | | | | | | | | | 100 | | | | |
| 4797.9(12) | X ⁽⁺⁾ | | | | | | | | | | | | |
| 4802.5(13) | | | | | | | | | 100 | | | | |
| 4869(3) | | | | | | | | | | | | | |
| 4880.5(3) | X ⁽⁺⁾ | | | | | | | | 100 | | | | |
| 4881.0(12) | | | | | | | | | | | | | |
| 4899.0(9) | | | | | | | | | 100 | | | | |
| 4905.6(24) | | | | | | | | | | | | | |
| 4956(3) | | | | | | | | | | | | | |
| 4978.5(12) | X ⁽⁺⁾ | | | | | | | | | | | | |
| 4998.8(18) | | | | | | | | | | | | | |
| 5025.1(16) | | | | | | | | | | | | | |
| 5080.2(13) | X ⁽⁺⁾ | | | | | | | | | | | | |
| 5125(3) | | | | | | | | | | | | | |
| 5132.2(20) | | | | | | | | | 100 | | | | |

(continued)

¹³⁷Xe
54

| E^* | $2J^\pi$ | L | S_N | σ (d,p) | σ (d,p) | S' | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|------------|-----------|--------|--------|------------------|------------------|--------|----------------------|------|--------------------------------|-------|-------|-----------------------|------|-----------------------|
| [keV] | | (d,p) | (d,p) | $\mu\text{b/sr}$ | $\mu\text{b/sr}$ | | Γ_{cm} | | E_f^* : | 0.0 | 601.0 | 986.2 | 1218 | 1220 |
| | | | | | | | | | $2J_f^\pi$: | 7^- | 3^- | $\langle 1 \rangle^-$ | | $\langle 9 \rangle^-$ |
| 5148.8(12) | | | | | | | | | | 100 | | | | |
| 5158.2(16) | $X^{(+)}$ | | | | | | | | | | | | | |
| 5170.2(8) | | | | | | | | | | x | | | | |
| 5179.7(20) | $X^{(+)}$ | | | | | | | | | | | | | |
| 5208.9(19) | $X^{(+)}$ | | | | | | | | | | | | | |
| 5230.3(23) | $X^{(+)}$ | | | | | | | | | | | | | |
| 5355(5) | $X^{(+)}$ | | | | | | | | | | | | | |
| 5379(5) | $X^{(+)}$ | | | | | | | | | | | | | |
| 5408(5) | $X^{(+)}$ | | | | | | | | | | | | | |
| | | 68Mo21 | 68Mo21 | 68Mo21 | 66Sc13 | | | Ref. | | | | | | |
| | | | 94Tu02 | | | 66Sc13 | | Ref. | | | | | | |

Additional data on this isotope can be found in [99Da13].

* It is concluded in [94Tu02] that association with levels seen in other experiments is not obvious for $E^* > 1410$ keV; additional data from [68Mo21, 66Sc13] can be found in Supplement.

For many levels with energies above 4.5 MeV transitions to the ground states were observed.

Data on S' obtained in the inverse kinematics [91Kr12] given in the third column are in agreement with data on the (d,p) reaction with light ions given at left [68Mo21, 66Sc13].

Energy levels and branching ratios [94Tu02]. Part 2

¹³⁷Xe
54

| E^* | $2J^\pi$ | E_f^* : | 1303 | 1512 | 1534 | 1621.1 | 1668.1 | 1715.5 | 1752.6 | 1766.2 | 1808.7 |
|-------------|--------------------------|--------------|-------|------|-----------------------|--------|-----------------------|---------------|--------|---------------|--------|
| [keV] | | $2J_f^\pi$: | 5^- | | $\langle 5 \rangle^-$ | | $\langle 1,3 \rangle$ | $3^-, 5, 7^-$ | | $3^-, 5, 7^-$ | |
| 1715.55(10) | $3^-, 5, 7^-$ | | 14 | | | | | | | | |
| 1766.17(10) | $3^-, 5, 7^-$ | | 16 | | | | | | | | |
| 1796.08(15) | | | | 7 | | | | | | | |
| 1841.49(25) | $\langle 3^- \rangle$ | | 77 | | | | | | | | |
| 1849.69(10) | $3^-, 5, 7^-$ | | 25 | | | | | | | | |
| 1873.13(10) | | | 13 | | | | | | | | |
| 1935.2(3) | | | | | | 100 | | | | | |
| 1936.05(10) | $\langle 3^- \rangle$ | | 14 | | | | 18 | | | | |
| 1997.06(7) | | | 15 | | | | | | | | |
| 2029.8(7) | | | 3 | | | | | | | | |
| 2099.97(10) | | | | | 13 | | | | | | |
| 2155.11(20) | | | 11 | | | | | | | | |
| 2191.19(15) | | | 26 | | | | | | | | |
| 2196.15(15) | $\langle 1^-, 3 \rangle$ | | 100 | | | | | | | | |
| 2237.76(25) | | | | 68 | | | | | | | |
| 2244.09(15) | | | 29 | | 12 | | | | | 17 | 15 |
| 2345.65(15) | | | | 12 | | | | | | | |
| 2490.38(10) | $\langle 3^- \rangle$ | | 22 | | | | | | | | |
| 2629.70(10) | | | | | | | | | 8 | | |

(continued)

¹³⁷Xe
54

| E^* [keV] | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | |
|----------------|----------|--------------------------------|------------------------|------|--------------------------|--------|-----------------|--|--------|--|--------|
| | | $E_f^*:$ $2J_f^\pi:$ | 1303 5 ⁻ | 1512 | 1534 ⟨5⟩ ⁻ | 1621.1 | 1668.1 ⟨1,3⟩ | 1715.5 3 ⁻ ,5,7 ⁻ | 1752.6 | 1766.2 3 ⁻ ,5,7 ⁻ | 1808.7 |
| 3022.9(3) | | | 36 | | | | | | | | |
| 3263.1(3) | | | | | | | | | | 100 | |
| 3276.72(20) | | | 32 | | | | | | | | |
| 3986.9(3) | | | | | 21 | | | | | 19 | |
| 3996.3(3) | | | 10 | | | | | | | | |
| 4025.73(25) | | | | | 27 | | | | | | |
| 4276.53(15) | | | | | 16 | | | | | | |

Energy levels and branching ratios [94Tu02]. Part 3

¹³⁷Xe
54

| E^* | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|-------------|-------------------------|--|--------|-----------------------------|--------|--------|------|------|------|------|------|--|
| [keV] | $E_f^*:$ $2J_f^\pi:$ | 1849.7 3 ⁻ ,5,7 ⁻ | 1873.1 | 1936.1 (3 ⁻) | 1991.2 | 1997.1 | 2030 | 2238 | 2630 | 2844 | 2960 | |
| 2244.09(15) | | 20 | | | 6 | | | | | | | |
| 3458.62(15) | | | | | | | | | | 12 | | |
| 3729.66(20) | | | | | | | | | 11 | | | |
| 3795.43(20) | | | 5 | 6 | | | | | | | | |
| 3862.5(3) | | | | | | | 24 | | | | | |
| 3866.2(3) | | | | | | | | | 23 | | | |
| 3911.27(20) | | | | | | | | | | | 15 | |
| 3986.9(3) | | | | | | | | | 15 | | | |
| 3996.3(3) | | | 23 | | 6 | 8 | | | 11 | | | |
| 4025.73(25) | | | | | | | | 19 | 24 | | | |
| 4028.92(15) | | | 40 | 60 | | | | | | | | |

Energy levels and branching ratios [03So13].

¹³⁸Xe
54

| E^* [keV] | J^π | $T_{1/2}$ or Γ_{cm} | Branching ratios in percentage | | | | | | | |
|----------------|--------------------|--------------------------------------|--------------------------------|-----------------------|-------------------------|--------------------------|---------------------------|------------------------|---------------|------|
| | | | $E_f^*:$ $J_f^\pi:$ | 0.0 0 ⁺ | 588.8 2 ⁺ | 1072.5 4 ⁺ | 1464 ⟨2 ⁺ ⟩ | 1555 6 ⁺ | 1866 ⟨1,2⟩ | 1903 |
| 0.0 | 0 ⁺ | 14.08(8) m | | | | | | | | |
| 588.827(18) | 2 ⁺ | | | 100 | | | | | | |
| 1072.53(3) | 4 ⁺ | | | | 100 | | | | | |
| 1463.99(7) | ⟨2 ⁺ ⟩ | | | 6.3(7) | 94(7) | | | | | |
| 1554.6(9) | 6 ⁺ | | | | | 100 | | | | |
| 1866.26(8) | ⟨1,2⟩ | | | 12(1) | 88(4) | | | | | |
| 1903.16(6) | ⟨2-4⟩ ⁺ | | | | 36(1) | 58(3) | 6.6(10) | | | |
| 2015.45(8) | ⟨3 ⁻ ⟩ | | | | 64(19) | 36(19) | | | | |
| 2114.66(13) | ⟨1,2⟩ | | | 12(2) | 68(5) | | 19(5) | | | |

(continued)

¹³⁸Xe
₅₄

| E^* [keV] | J^π | $T_{1/2}$ or Γ_{cm} | Branching ratios in percentage | | | | | | |
|----------------|--------------------|--------------------------------------|--------------------------------|-----------------------|-------------------------|--------------------------|---------------------------|------------------------|---------------|
| | | | $E_f^*:$ $J_f^\pi:$ | 0.0 0 ⁺ | 588.8 2 ⁺ | 1072.5 4 ⁺ | 1464 (2 ⁺) | 1555 6 ⁺ | 1866 (1,2) |
| 2115.5(10) | | | | | | 100 | | | |
| 2117.21(15) | (1-3) | | | | 100 | | | | |
| 2212.51(13) | (1-3) | | | | 100 | | | | |
| 2262.14(7) | (1,2) | | | 76(2) | 24(1) | | | | |
| 2284.2(12) | 8 ⁺ | | | | | | | 100 | |
| 2293.2(9) | (6 ⁺) | | | | | x | | x | |
| 2331.57(10) | (2,3) | | | | 42(5) | 58(3) | | | |
| 2334.02(11) | (1-3) | | | | 22(3) | | 68(11) | | 1.8(5) |
| 2391.0(13) | | | | | | | | 100 | 6(2) |
| 2398.15(11) | (1,2) | | | 25(2) | 75(4) | | | | |
| 2535.12(13) | (1-3) | | | | 100 | | | | |
| 2543.73(8) | (1,2) | | | 34(1) | 31(1) | | 6(1) | | 3(1) |
| 2572.41(11) | (1,2) | | | 75(2) | | | 25(2) | | |
| 2644.69(18) | (1,2) | | | 62(9) | | | | | |
| 2655.1(12) | (8 ⁺) | | | | | | | x | |
| 2674.26(10) | (1,2) | | | 10(1) | 68(3) | | 15(3) | | 7(2) |
| 2710.1(13) | | | | | | | | 100 | |
| 2794.34(11) | (1,2) | | | 28(4) | | | 13(5) | | |
| 2835.65(18) | (1,2) | | | 83(3) | | | 17(4) | | |
| 2890.47(14) | (1-3) | | | 5.1(12) | 77(3) | | | | 12(3) |
| 2952.58(14) | (1-3) | | | | 60(36) | | | | |
| 2964.36(12) | (1,2) | | | 11(1) | 11(1) | | 64(4) | | |
| 2972.2(14) | 10 ⁺ | | | | | | | | |
| 3131.40(15) | (2,3) | | | | | 100 | | | |
| 3224.7(15) | | | | | | | | | |
| 3276.5(16) | | | | | | | | | |
| 3354.7(13) | | | | | | | | | |
| 3412.7(16) | | | | | | | | | |
| 3474.78(11) | (2 ⁺) | | | 21(4) | | 79(4) | | | |
| 3496.57(11) | (1,2) | | | 58(3) | | | ≈35 | | |
| 3516.55(11) | (1,2) | | | 58(6) | 42(2) | | | | |
| 3571.3(15) | 12 ⁺ | | | | | | | | |
| 3839.7(15) | | | | | | | | | |
| 3876.7(17) | | | | | | | | | |
| 3898.6(14) | | | | | | | | | |
| 3899.08(11) | (1,2) | | | 2 | 48(2) | 3.2(7) | | | ≈20 |
| 3961.3(4) | (1-3) | | | | | | | | |
| 4084.6(16) | | | | | | | | | |
| 4167.1(5) | | | | | | | | | |
| 4182.00(12) | (1,2) | | | 62(4) | 24(1) | | | | |
| 4318.96(20) | (1,2) | | | 100 | | | | | x |
| 4357.4(15) | | | | | | | | | |
| 4419.1(18) | (14 ⁺) | | | | | | | | |
| 4490.49(19) | (1-3) | | | | | | 28(5) | | |
| 4511.8(16) | | | | | | | | | |

(continued)

¹³⁸Xe
54

| E^* [keV] | J^π | $T_{1/2}$ or Γ_{cm} | Branching ratios in percentage | | | | | | | |
|----------------|---------|--------------------------------------|--|-----------------------|-------------------------|--------------------------|---------------------------|------------------------|---------------|------|
| | | | $E_{\text{f}}^*:$ $J_{\text{f}}^\pi:$ | 0.0 0 ⁺ | 588.8 2 ⁺ | 1072.5 4 ⁺ | 1464 <2 ⁺ > | 1555 6 ⁺ | 1866 <1,2> | 1903 |
| 4526.3(18) | | | | | | | | | | |
| 4689.9(18) | | | | | | | | | | |
| 4965.0(20) | | | | | | | | | | |
| 4989.7(20) | | | | | | | | | | |
| 5042.0(3) | | | | | | | | | | |
| 5141.6(5) | | | | | | | | | | |
| 5341.63(17) | <1,2> | | | 41(6) | 28(2) | | | | | |
| 5520.0(21) | | | | | | | | | | |
| 5814.0(22) | | | | | | | | | | |

Additional data on this isotope can be found in [00Ko15, 93Bu12, 92Co26].

Energy levels and branching ratios [03So13]. Part 2

¹³⁸Xe
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| E^* | J^π | Branching ratios in percentage | | | | | | | | | | |
|-------------|-------------------|--|---------------------------|-----------------|--------|-------------------|-------------------|-----------------|--------------------------|-----------------|-------------------|-------------------|
| [keV] | | E_{f}^* : J_{f}^π : | 2015 ⟨3 [−] ⟩ | 2114.7 ⟨1,2⟩ | 2115.5 | 2117.2 ⟨1,2,3⟩ | 2212.5 ⟨1,2,3⟩ | 2262.1 ⟨1,2⟩ | 2284.2 8 ⁺ | 2331.6 ⟨2,3⟩ | 2334.0 ⟨1,2,3⟩ | 2535.1 ⟨1,2,3⟩ |
| 2334.02(11) | ⟨1–3⟩ | | 1.6(5) | | | | | | | | | |
| 2543.73(8) | ⟨1,2⟩ | | | | | | | | | 26(14) | | |
| 2644.69(18) | ⟨1,2⟩ | | | | | | | | | | 38(11) | |
| 2655.1(12) | ⟨8 ⁺ ⟩ | | | | | | | | x | | | |
| 2794.34(11) | ⟨1,2⟩ | | 45(5) | | | | | | | | 14(5) | |
| 2890.47(14) | ⟨1–3⟩ | | | | | | 6(2) | | | | | |
| 2964.36(12) | ⟨1,2⟩ | | | 10(2) | | | | | | | | |
| 2972.2(14) | 10 ⁺ | | | | | | | | 100 | | | |
| 3224.7(15) | | | | | | | | | 100 | | | |
| 3276.5(16) | | | | | | | | | 100 | | | |
| 3354.7(13) | | | | | | | | | x | | | |
| 3412.7(16) | | | | | | | | | 100 | | | |
| 3496.57(11) | ⟨1,2⟩ | | | | | 6(2) | | | | | | |
| 3899.08(11) | ⟨1,2⟩ | | | | | | | | | 10(2) | | |
| 3961.3(4) | ⟨1–3⟩ | | | | | | | | | 100 | | |
| 4182.00(12) | ⟨1,2⟩ | | | | | | | 14(1) | | | | |
| 5042.0(3) | | | 37(7) | | | | | | | | | |
| 5141.6(5) | | | | | 45(8) | | | | | | | |
| 5341.63(17) | ⟨1,2⟩ | | | | | | | | | | | 30(6) |

Energy levels and branching ratios [03So13]. Part 3

¹³⁸Xe
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| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | | |
|----------------|-----------------|--------------------------------|-----------------|-----------------|-----------------------------|-----------------|-------------------|-------------------|---------------------------|--------|--------|-----------------------------|
| | | E_f^* : J_f^π : | 2543.7 ⟨1,2⟩ | 2572.4 ⟨1,2⟩ | 2655.1 ⟨8 ⁺ ⟩ | 2674.3 ⟨1,2⟩ | 2890.5 ⟨1,2,3⟩ | 2952.6 ⟨1,2,3⟩ | 2972.2 10 ⁺ | 3224.7 | 3354.7 | 3474.8 ⟨2 ⁺ ⟩ |
| 2964.36(12) | ⟨1,2⟩ | | | 4(2) | | | | | | | | |
| 3354.7(13) | | | | | x | | | | x | | | |
| 3571.3(15) | 12 ⁺ | | | | | | | | 100 | | | |
| 3839.7(15) | | | | | | | | | x | x | | |
| 3876.7(17) | | | | | | | | | 100 | | | |
| 3898.6(14) | | | | | | | | | x | | x | |
| 3899.08(11) | ⟨1,2⟩ | | 17(1) | | | | | | | | | |
| 4084.6(16) | | | | | | | | | 100 | | | |
| 4167.1(5) | | | | 100 | | | | | | | | |
| 4182.00(12) | ⟨1,2⟩ | | | x | | | | | | | | |
| 4490.49(19) | ⟨1-3⟩ | | | | | 36(8) | | | | | | |
| 5042.0(3) | | | | | | | 31(7) | | | | | |
| 5141.6(5) | | | | | | | | | | | | 22(10) |
| 5341.63(17) | ⟨1,2⟩ | | | | | | | x | | | | |

Energy levels and branching ratios [03So13]. Part 4

¹³⁸Xe
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| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | | | |
|----------------|--------------------|--------------------------------|-----------------|---------------------------|--------|--------|--------|------------------------------|--------|--------|--------|
| | | E_f^* : J_f^π : | 3496.6 ⟨1,2⟩ | 3571.3 12 ⁺ | 3898.6 | 4084.6 | 4167.1 | 4419.1 ⟨14 ⁺ ⟩ | 4965.0 | 4989.7 | 2115.1 |
| 2952.58(14) | ⟨1-3⟩ | | | | | | | | | | 27(10) |
| 3898.6(14) | | | | x | | | | | | | |
| 4357.4(15) | | | | x | x | x | | | | | |
| 4419.1(18) | ⟨14 ⁺ ⟩ | | | 100 | | | | | | | |
| 4490.49(19) | ⟨1-3⟩ | | 37(6) | | | | | | | | |
| 4511.8(16) | | | | x | x | | | | | | |
| 4526.3(18) | | | | 100 | | | | | | | |
| 4689.9(18) | | | | 100 | | | | | | | |
| 4965.0(20) | | | | | | | | 100 | | | |
| 4989.7(20) | | | | | | | | 100 | | | |
| 5042.0(3) | | | 32(9) | | | | | | | | |
| 5141.6(5) | | | | | | | 33(10) | | | | |
| 5341.63(17) | ⟨1,2⟩ | | x | | | | | | | | |
| 5520.0(21) | | | | | | | | | x | x | |
| 5814.0(22) | | | | | | | | | | 100 | |