

Energy levels and branching ratios [92Ak04].

²⁴⁷Bk
97

| E^* | $2J^\pi$ | σ (α ,t) | $(2J+1)S$ | I_t | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|----------|------------------------|-------------------------|----------------|--------|----------------------|--------|--------------------------------|------------------------------|-------------------------------|---------------|-------------------------------|------------------------------|
| [keV] | | $\mu\text{b/sr}$ | (α ,t) | (p,t) | Γ_{cm} | | E^*_f : $2J^\pi_f$: | 0.0 $\langle 3^- \rangle$ | 29.9 $\langle 5^- \rangle$ | 40.8 7^+ | 71.6 $\langle 7^- \rangle$ | 125 $\langle 9^- \rangle$ |
| 0.0 | $\langle 3^- \rangle$ | 4.3(7) | 0.14(3) | | 1380(250) yr | 79Ah03 | | | | | | |
| 29.9(2) | $\langle 5^- \rangle$ | 4.2(7) | 0.18 | | | 79Ah03 | x | | | | | |
| 40.8(2) | 7^+ | | | 1.00 | | 83De19 | x | x | | | | |
| 71.6(2) | $\langle 7^- \rangle$ | 33.5(15) | 1.40(13) | | | 79Ah03 | | | | | | |
| 82.8(3) | $\langle 9 \rangle^+$ | | 0.48 | 0.48 | | 83De19 | | | | x | | |
| 125.5(5) | $\langle 9^- \rangle$ | 1.7(5) | | | | 79Ah03 | | | | | | |
| 137(5) | $\langle 11^+ \rangle$ | | | 0.25 | | 83De19 | | | | | | |
| 196(3) | $\langle 13^+ \rangle$ | 19.3(20) | 0.21(5) | 0.097 | | 79Ah03 | | | | | | |
| 265(2) | $\langle 15^+ \rangle$ | | | 0.065 | | 83De19 | | | | | | |
| 334.9(2) | $\langle 5 \rangle^+$ | | | | | | | 2.8(3) | 0.87(14) | 96(8) | | |
| 378.1(6) | $\langle 7^+ \rangle$ | | | | | | | | | x | | |
| 447.8(1) | $\langle 5^- \rangle$ | | | | | | 48(4) | 30(3) | 17(2) | 6.1(6) | | |
| 487(3) | $\langle 1^+ \rangle$ | 3.0(6) | 0.21(5) | | | 79Ah03 | | | | | | |
| 489.4(4) | $\langle 7^- \rangle$ | | | | | | | 50(8) | | | x | 50(10) |
| 518(5) | $\langle 3^+ \rangle$ | 1.4(5) | 0.09(3) | | | 79Ah03 | | | | | | |
| 541(3) | $\langle 9^- \rangle$ | 4.1(7) | 0.30(12) | | | 79Ah03 | | | | | | |
| 587(4) | $\langle 13^+ \rangle$ | 1.3(4) | 0.22(7) | | | 79Ah03 | | | | | | |
| 704(4) | $\langle 1^- \rangle$ | 4.4(8) | 0.23(5) | | | 79Ah03 | | | | | | |
| 743(3) | $\langle 5^- \rangle$ | 12.0(12) | 0.83(9) | | | 79Ah03 | | | | | | |
| 815(4) | $\langle 7^- \rangle$ | 4.5(8) | 0.35(7) | | | 79Ah03 | | | | | | |
| 828(5) | $\langle 9^- \rangle$ | 2.4(7) | 0.35(10) | | | 79Ah03 | | | | | | |
| 904(3) | $\langle 9^- \rangle$ | 8.0(13) | 1.36(20) | | | 79Ah03 | | | | | | |
| 983(3) | | 3.4(7) | | | | 79Ah03 | | | | | | |
| 1149(4) | | 1.4(6) | | | | 79Ah03 | | | | | | |
| 1166(4) | $\langle 13^+ \rangle$ | 3.0(6) | 0.77(16) | | | 79Ah03 | | | | | | |
| | | 79Ah03 | 79Ah03 | 83De19 | | Ref. | | | | | | |

 I_t is the intensity of tritons from (p,t) reaction measured at angles from 10° to 90° [83De19].

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

Energy levels and branching ratios [99Ak02].

²⁴⁸Bk
97

| E^* [keV] | J^π | $T_{1/2}$ or Γ_{cm} |
|----------------|---------------------------------|--------------------------------------|
| 0.0 | | >9 yr |
| 0.0+X | $1^{\langle - \rangle}$ | 23.7(2) h |
| 0.0+Y | $\langle 6^+ \rangle$ | |
| 70.65+Y | $\langle 7^+ \rangle$ | |
| 136+Y | $\langle 8^- \rangle$ | |
| 145+Y | | |
| 151.3+Y | $\langle 8^+ \rangle$ | |
| 171.5+Y | $\langle 4^-, 5^-, 6^- \rangle$ | |

(continued)

²⁴⁸₉₇Bk

| E^* | J^π | $T_{1/2}$ or |
|---------|---------------------------------|----------------------|
| [keV] | | Γ_{cm} |
| 179+Y | | |
| 212.6+Y | $\langle 4^-, 5^-, 6^- \rangle$ | |
| 262+Y | | |
| 339+Y | | |
| 373+Y | | |
| 399.7+Y | $\langle 5^+ \rangle$ | |
| 424+Y | | |
| 458+Y | | |
| 483+Y | | |
| 529.1+Y | | |
| 590.0+Y | $\langle 5^- \rangle$ | |
| 624+Y | $\langle 7^+ \rangle$ | |
| 657+Y | $\langle 6^- \rangle$ | |
| 700+Y | $\langle 8^+ \rangle$ | |

Energy levels and branching ratios [99Ak02]. Part 2

²⁴⁸₉₇Bk

| E^* | J^π | Branching ratios in percentage | | | | | | |
|---------|-----------------------|--------------------------------|-----------------------|-----------------------|-------|---------|-------|---------|
| | | $E_{\text{f}}^*:$ | 0.0+Y | 70.65+Y | 145+Y | 171.5+Y | 179+Y | 212.6+Y |
| [keV] | | $J_{\text{f}}^\pi:$ | $\langle 6^+ \rangle$ | $\langle 7^+ \rangle$ | | | | |
| 70.65+Y | $\langle 7^+ \rangle$ | | x | | | | | |
| 136+Y | $\langle 8^- \rangle$ | | | x | | | | |
| 151.3+Y | $\langle 8^+ \rangle$ | | 69(7) | 31(6) | | | | |
| 373+Y | | | | | 35(6) | | 65(8) | |
| 399.7+Y | $\langle 5^+ \rangle$ | | x | | | | | |
| 529.1+Y | | | x | | | | | |
| 590.0+Y | $\langle 5^- \rangle$ | | 20(2) | | | 52(5) | | 28(4) |

Energy levels and branching ratios [99Ar21].

²⁴⁹₉₇Bk

| E^* | $2J^\pi$ | $n\ell j$ | σ (α, t) | σ (τ, d) | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|-----------|-----------------------|-----------|---------------------------------|-------------------------------|----------------------|--------|--------------------------------|-------|-----------------------|-----------------------|-------|-----------------------|
| | | | | | | | $E_{\text{f}}^*:$ | 0.0 | 8.8 | 39.6 | 41.8 | 82.6 |
| [keV] | | | $\mu\text{b/sr}$ | $\mu\text{b/sr}$ | Γ_{cm} | | $2J_{\text{f}}^\pi:$ | 7^+ | $\langle 3^- \rangle$ | $\langle 5^- \rangle$ | 9^+ | $\langle 7^- \rangle$ |
| 0.0 | 7^+ | | | | 330(4) d | | | | | | | |
| 8.80(10) | $\langle 3^- \rangle$ | 3-[521] | 9.8(10) | 4.3(7) | 0.3 ms | 75Er01 | | 100 | | | | |
| 39.64(10) | $\langle 5^- \rangle$ | | | | | | | | x | | | |
| 41.79(2) | 9^+ | 7+[633] | 14.1(15) | 5.1(7) | 9(2) ps | 75Er01 | | 100 | | | | |
| | $\langle 5^- \rangle$ | 3-[521] | incl | incl | | | | | 10 | 90 | | |
| 82.62(10) | $\langle 7^- \rangle$ | 3-[521] | 71(4) | 15.5(12) | | 75Er01 | | | 10 | 90 | | |

(continued)

²⁴⁹Bk
₉₇

| E^* | $2J^\pi$ | $n\ell j$ | σ (α, t) | σ (τ, d) | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|------------|--------------------|-----------|--------------------------|------------------------|----------------------|--------|--------------------------------|-----------------------|--------------------------|---------------------------|------------------------|---------------------------|
| [keV] | | | $\mu\text{b/sr}$ | $\mu\text{b/sr}$ | Γ_{cm} | | E_f^* : $2J_f^\pi$: | 0.0 7 ⁺ | 8.8 (3 ⁻) | 39.6 (5 ⁻) | 41.8 9 ⁺ | 82.6 (7 ⁻) |
| 93.75(2) | 11 ⁺ | | | | 5(1) ps | | | 10 | | | 90 | |
| 137.72(10) | (9 ⁻) | 3-[521] | <4 | 1.8(6) | | 75Er01 | | | | 28 | | 72 |
| 155.83(3) | 13 ⁺ | 7+[633] | 53(3) | 9.6(8) | | 75Er01 | | | | | ≈25 | |
| 204.6(1) | (11 ⁻) | 3-[521] | 4.4(11) | 2.3(8) | | 75Er01 | | | | | 0.8 | 40 |
| 229.27(6) | (15 ⁺) | | | | | | | | | | | |
| 283.17(11) | (13 ⁻) | | | | | | | | | | | |
| 313(3) | (17 ⁺) | | | | | | | | | | | |
| 372.9 | (15 ⁻) | | | | | | | | | | | |
| 377.6(1) | (1 ⁺) | 1+[400] | 10.7(8) | 2.9(4) | | 75Er01 | | | 100 | | | |
| 389.18(5) | (5 ⁺) | | | | | | | 97.4(11) | 1.4(4) | 0.52 | 0.66 | 0.10 |
| 410.6(1) | (3 ⁺) | 1+[400] | 4.7(7) | 1.5(3) | | 75Er01 | | | | | | |
| 421.21(10) | (5 ⁺) | 1+[400] | | | | | | 100 | | | | |
| 428.94(5) | (7 ⁺) | | | | | | | 24 | | | 74 | 0.70 |
| 474.9(2) | (9 ⁺) | 5+[642] | <2 | 0.3(2) | | 75Er01 | | 3.9 | | | 32 | 1.4(11) |
| 518.9(7) | (7 ⁺) | | | | | | | | | | 33 | |
| 542.0(4) | (11 ⁺) | | | | | | | 1.1 | | | 8 | |
| 553(6) | | | 2.0(10) | 1.0(8) | | 75Er01 | | | | | | |
| 558.08(10) | (3 ⁻) | | | | | | | | 16(3) | 47(3) | | 3.9(7) |
| 569.24(11) | (1 ⁻) | | | | | | | | 98(7) | 0.81(9) | | |
| 570(3) | | | 8.2(7) | 4.0(6) | | 75Er01 | | | | | | |
| 597.6(6) | (13 ⁺) | 5+[642] | 4.3(6) | <1 | | 75Er01 | | | | | | |
| 606.6(6) | (7 ⁻) | | | | | | | | | 26 | | 29 |
| 625.0(8) | (5 ⁻) | | | | | | | | 10 | 90 | | |
| 625(1) | [9] | 5-[523] | 26.9(15) | 8.3(9) | | 75Er01 | | | | | | |
| 643.1(1) | (1 ⁻) | | 8.3(20) | 5.4(6) | | 75Er01 | | | 99(7) | 0.43(6) | | |
| 661.6(1) | (3 ⁻) | | incl | incl | | | | | 44(3) | 56(4) | | |
| 682(6) | 11 ⁻ | 5-[523] | 0.5(4) | 1.0(5) | | 75Er01 | | | | | | |
| 700(3) | (11 ⁻) | | | | | | | | | | | |
| 709(4) | | | 12.9(8) | 1.0(6) | | 75Er01 | | | | | | |
| 719(4) | | | 2.0(9) | 6.0(15) | | 75Er01 | | | | | | |
| 734(10) | | | | | | | | | | | | |
| 750(1) | (9 ⁻) | 7-[514] | 34.4(15) | 10.0(8) | | 75Er01 | | | | | | |
| 769(5) | | | 3.9(7) | <0.8 | | 75Er01 | | | | | | |
| 794(5) | | | 1.3(5) | 0.9(6) | | 75Er01 | | | | | | |
| 829(3) | 11 ⁻ | 7-[514] | 3.2(10) | 0.5(4) | | 75Er01 | | | | | | |
| 840(3) | | | 7.9(10) | 1.3(6) | | 75Er01 | | | | | | |
| 909(5) | | | <1 | 0.8(4) | | 75Er01 | | | | | | |
| 932 | | | 8.3(10) | 3.9 | | 75Er01 | | x | | | | |
| 947(10) | | | 1.0(6) | 1.0(6) | | 75Er01 | | | | | | |
| 986(8) | | | 1.7 | <0.5 | | 75Er01 | | | | | | |
| 1134(8) | | | 1.7 | <0.5 | | 75Er01 | | | | | | |
| 1158(6) | | | 1.1 | 1.0 | | 75Er01 | | | | | | |
| 1186(8) | | | 1.7 | 2.0 | | 75Er01 | | | | | | |
| 1229(2) | 13 | 9+[624] | 24.0(15) | 8.5(8) | | 75Er01 | | | | | | |
| 1311(5) | | | 3.8(8) | 2.9(7) | | 75Er01 | | | | | | |

(continued)

²⁴⁹Bk
₉₇

| E^* | $2J^\pi$ | $n\ell j$ | $\sigma\ (\alpha,t)$ | $\sigma\ (\tau,d)$ | $T_{1/2}$ or | Ref. | Branching ratios in percentage | | | | | |
|---------|----------|-----------|----------------------|--------------------|----------------------|--------|--------------------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|
| [keV] | | | $\mu\text{b/sr}$ | $\mu\text{b/sr}$ | Γ_{cm} | | E^*_f : $2J^\pi_f$: | 0.0 7 ⁺ | 8.8 3 ⁻ | 39.6 5 ⁻ | 41.8 9 ⁺ | 82.6 7 ⁻ |
| 1347(7) | | | 3.1(8) | 2.5(6) | | 75Er01 | | | | | | |
| 1390(6) | | | 3.8(8) | 2.4(6) | | 75Er01 | | | | | | |
| | | 75Er01 | 75Er01 | 75Er01 | | Ref. | | | | | | |

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

Energy levels and branching ratios [99Ar21]. Part 2

²⁴⁹Bk
₉₇

| E^* | $2J^\pi$ | Branching ratios in percentage | | | | | | | | | | |
|------------|-----------------|--------------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| [keV] | | E_f^* : $2J_f^\pi$: | 93.75 11 ⁺ | 137.72 9 ⁻ | 155.83 13 ⁺ | 204.59 11 ⁻ | 229.27 15 ⁺ | 377.59 1 ⁺ | 389.18 5 ⁺ | 410.62 3 ⁺ | 421.21 5 ⁺ | 558.08 3 ⁻ |
| 155.83(3) | 13 ⁺ | | 75 | | | | | | | | | |
| 204.6(1) | 11 ⁻ | | | 59 | | | | | | | | |
| 229.27(6) | 15 ⁺ | | ≈23 | | 77 | | | | | | | |
| 283.17(11) | 13 ⁻ | | | 50 | | ≈50 | | | | | | |
| 372.9 | 15 ⁻ | | | | | x | | | | | | |
| 428.94(5) | 7 ⁺ | | 0.61 | 0.14 | | | | | | | | |
| 474.9(2) | 9 ⁺ | | 62 | 0.60 | 0.41 | | | | | | | |
| 518.9(7) | 7 ⁺ | | 67 | | | | | | | | | |
| 542.0(4) | 11 ⁺ | | 31 | 0.26 | 59(23) | | 0.18(9) | | | | | |
| 558.08(10) | 3 ⁻ | | | | | | | 11(1) | 1.2(1) | | 21(2) | |
| 569.24(11) | 1 ⁻ | | | | | | | 1.16(11) | | 0.34(5) | | |
| 597.6(6) | 13 ⁺ | | 4.4 | | 19 | | 77 | | | | | |
| 606.6(6) | 7 ⁻ | | | 44 | | | | | | | | |
| 643.1(1) | 1 ⁻ | | | | | | | | | | | 0.36(3) |

Energy levels and branching ratios [01Ak11, 82Si02].

²⁵⁰Bk
₉₇

| E^* | J^π | $T_{1/2}$ or |
|--------|----------------|----------------------|
| [keV] | | Γ_{cm} |
| 0.0 | 2 ⁻ | 3.212(5) h |
| 34.47 | 3 ⁻ | |
| 35.59 | 4 ⁺ | 29(1) μs |
| 78.33 | 5 ⁺ | |
| 80.26 | 4 ⁻ | |
| 86(2) | 7 ⁺ | 213(8) μs |
| 97.49 | 5 ⁻ | 38(5) ns |
| 103.83 | 1 ⁻ | |
| 115.45 | 3 ⁺ | |

(continued)

E^*

[keV]

J^π

$T_{1/2}$ or
 Γ_{cm}

250

97

Bk

| | | |
|---------------|-----------------------|----------|
| 125.01 | $\langle 2^- \rangle$ | |
| 130.49 | $\langle 6^+ \rangle$ | |
| 137.32 | $\langle 5^- \rangle$ | |
| 146.43 | $\langle 2^- \rangle$ | |
| 148.60 | $\langle 4^+ \rangle$ | |
| 156(2) | $\langle 8^+ \rangle$ | |
| 157.39 | $\langle 3^- \rangle$ | |
| 167.09 | $\langle 6^- \rangle$ | |
| 175.13 | $\langle 1^+ \rangle$ | 42(2) ns |
| 179.99 | $\langle 3^- \rangle$ | |
| 190(2) | $\langle 7^+ \rangle$ | |
| 203.64 | $\langle 4^- \rangle$ | |
| 211.82 | 2^+ | |
| 215.94 | $\langle 0^+ \rangle$ | |
| 236.74 | $\langle 3^+ \rangle$ | |
| 241(2) | $\langle 9^+ \rangle$ | |
| 247.9(2) | $\langle 7^- \rangle$ | |
| 270.46 | $\langle 4^+ \rangle$ | |
| 298(2) | | |
| 316(3) | $\langle 5^+ \rangle$ | |
| 316.46 | $\langle 5^+ \rangle$ | |
| 325(2) | | |
| 333(2) | | |
| ≈ 341 | | |
| 369.61 | $\langle 6^+ \rangle$ | |
| 406 | $\langle 6^+ \rangle$ | |
| 413(3) | | |
| 471(2) | | |
| 526 | | |
| 527(20) | | |
| 552 | | |
| 566 | | |

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

Energy levels and branching ratios [01Ak11, 82Si02]. Part 2

E^*

[keV]

J^π

$E_{\text{f}}^*:$
 $J_{\text{f}}^\pi:$

0.0

2^-

34.47

$\langle 3^- \rangle$

35.59

$\langle 4^+ \rangle$

35.59

$\langle 4^+ \rangle$

78.33

$\langle 5^+ \rangle$

80.26

$\langle 4^- \rangle$

86

$\langle 7^+ \rangle$

97.49

$\langle 5^- \rangle$

Branching ratios in percentage

250

97

Bk

| | | | | | | | | |
|-------|-----------------------|-----|---|---|--|--|--|--|
| 34.47 | $\langle 3^- \rangle$ | x | | | | | | |
| 35.59 | $\langle 4^+ \rangle$ | 100 | x | | | | | |
| 78.33 | $\langle 5^+ \rangle$ | | | x | | | | |

(continued)

 $^{250}_{97}\text{Bk}$

| E^* [keV] | J^π | Branching ratios in percentage | | | | | | | |
|----------------|-----------------------|--------------------------------|--------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------------|--------------------------------|
| | | $E_f^*:$ $J_f^\pi:$ | 0.0 2^- | 34.47 $\langle 3^- \rangle$ | 35.59 $\langle 4^+ \rangle$ | 78.33 $\langle 5^+ \rangle$ | 80.26 $\langle 4^- \rangle$ | 86 $\langle 7^+ \rangle$ | 97.49 $\langle 5^- \rangle$ |
| 80.26 | $\langle 4^- \rangle$ | | x | x | | | | | |
| 86(2) | $\langle 7^+ \rangle$ | | | | | x | | | |
| 97.49 | $\langle 5^- \rangle$ | | | | x | | | | |
| 103.83 | $\langle 1^- \rangle$ | | x | | | | | | |
| 115.45 | $\langle 3^+ \rangle$ | | | | x | | | | |
| 125.01 | $\langle 2^- \rangle$ | | 43(17) | 57(17) | | | | | |
| 130.49 | $\langle 6^+ \rangle$ | | | | x | x | | | |
| 137.32 | $\langle 5^- \rangle$ | | | x | | | x | | |
| 146.43 | $\langle 2^- \rangle$ | | x | x | | | | | |
| 148.60 | $\langle 4^+ \rangle$ | | | | x | x | | | |
| 156(2) | $\langle 8^+ \rangle$ | | | | | | | x | |
| 157.39 | $\langle 3^- \rangle$ | | | x | | | x | | |
| 167.09 | $\langle 6^- \rangle$ | | | | | | | | x |
| 175.13 | $\langle 1^+ \rangle$ | | 5.1(11) | | | | | | |
| 179.99 | $\langle 3^- \rangle$ | | x | x | | | | | |
| 203.64 | $\langle 4^- \rangle$ | | | x | | | x | | |
| 211.82 | 2^+ | | 61(6) | 36(4) | | | | | |
| 236.74 | $\langle 3^+ \rangle$ | | | x | | | | | |
| 247.9(2) | $\langle 7^- \rangle$ | | | | | | | | x |
| 270.46 | $\langle 4^+ \rangle$ | | | x | | | | | |
| 316.46 | $\langle 5^+ \rangle$ | | | | x | x | | | |
| 325(2) | | | | | | 76(12) | | | 24(3) |
| 369.61 | $\langle 6^+ \rangle$ | | | | | x | | | |
| 413(3) | | | | | | | | | x |

Energy levels and branching ratios [01Ak11, 82Si02]. Part 3

 $^{250}_{97}\text{Bk}$

| E^* | J^π | Branching ratios in percentage | | | | | | | | |
|----------|-----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------|---------------------------------|---------------------------------|-----------------|
| [keV] | | $E_f^*:$ $J_f^\pi:$ | 103.83 $\langle 1^- \rangle$ | 115.45 $\langle 3^+ \rangle$ | 125.01 $\langle 2^- \rangle$ | 130.49 $\langle 6^+ \rangle$ | 156 $\langle 8^+ \rangle$ | 167.09 $\langle 6^- \rangle$ | 175.13 $\langle 1^+ \rangle$ | 211.82 2^+ |
| 157.39 | $\langle 3^- \rangle$ | | x | | | | | | | |
| 175.13 | $\langle 1^+ \rangle$ | | 78(8) | | 17(2) | | | | | |
| 211.82 | 2^+ | | | 3.6(4) | | | | | x | |
| 215.94 | $\langle 0^+ \rangle$ | | x | | | | | | x | |
| 236.74 | $\langle 3^+ \rangle$ | | | x | | | | | | |
| 241(2) | $\langle 9^+ \rangle$ | | | | | | x | | | |
| 247.9(2) | $\langle 7^- \rangle$ | | | | | | | x | | |
| 270.46 | $\langle 4^+ \rangle$ | | | | | | | | | x |
| 369.61 | $\langle 6^+ \rangle$ | | | | | x | | | | |
| 471(2) | | | | | | | | x | | |

Energy levels and branching ratios [99Ar21, 06Tu0A].

²⁵¹₉₇Bk

| <i>E</i> [*] | 2 <i>J</i> ^π | 2 <i>K</i> [<i>Nn_zΛ</i>] | <i>T</i> _{1/2} or <i>Γ</i> _{cm} |
|-----------------------|-------------------------|---------------------------------------|--|
| [keV] | | | |
| 0 | ⟨3 [−] ⟩ | 3−[521] | 55.6(11) m |
| 32.5(8) | ⟨5 [−] ⟩ | 3−[521] | |
| 35.5(13) | ⟨7 ⁺ ⟩ | 7+ [633] | 58(4) μs |
| 70(3) | ⟨9 ⁺ ⟩ | 7+ [633] | |
| 124 | ⟨11 ⁺ ⟩ | 7+ [633] | |
| 269.1(10) | | | |
| 311.7(10) | ⟨1,3,5 [−] ⟩ | | |
| 422.2(8) | ⟨1 [−] ,3⟩ | | |
| 438.2(10) | ⟨1,3⟩ | | |
| 542.6(8) | ⟨1,3⟩ | | |
| 562.5(8) | ⟨1 [−] ,3⟩ | | |
| 978.4(7) | ⟨1 [−] ,3⟩ | | |

Two bands of levels are suggested in [06Tu0A].
Data for this isotope are considered in vol. LB I/18C.

Energy levels and branching ratios [99Ar21, 06Tu0A]. Part 2

²⁵¹₉₇Bk

| <i>E</i> [*] | 2 <i>J</i> ^π | Branching ratios in percentage | | | | | |
|-----------------------|-------------------------|--|------------------------|---------------------------|---------------------------|----------------|------------------------------|
| | | <i>E</i> _f [*] : 2 <i>J</i> _f ^π : | 0 ⟨3 [−] ⟩ | 32.5 ⟨5 [−] ⟩ | 35.5 ⟨7 ⁺ ⟩ | 542.6 ⟨1,3⟩ | 562.5 ⟨1 [−] ,3⟩ |
| [keV] | | | | | | | |
| 32.5(8) | ⟨5 [−] ⟩ | | x | | | | |
| 35.5(13) | ⟨7 ⁺ ⟩ | | 100 | | | | |
| 269.1(10) | | | x | | 100 | | |
| 311.7(10) | ⟨1,3,5 [−] ⟩ | | x | | | | |
| 422.2(8) | ⟨1 [−] ,3⟩ | | 36(4) | 64(4) | | | |
| 438.2(10) | ⟨1,3⟩ | | x | | | | |
| 542.6(8) | ⟨1,3⟩ | | x | | | | |
| 562.5(8) | ⟨1 [−] ,3⟩ | | 39(12) | 61(4) | | | |
| 978.4(7) | ⟨1 [−] ,3⟩ | | 68(9) | 10(5) | | 10(3) | 11(4) |