

Energy Structure of Nuclear Levels - $Z = 2 - 36$

1 Treatment of nuclear excited states (V.G. Soloviev)

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- 1.4 Phenomenological description of collective excited states
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- 1.6 Alpha, Beta, Gamma-Transition rates and direct nuclear reactions
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2 Excited states of light nuclei ($Z \leq 20$) (I.A. Gnizozub, E.V. Balandina, N.P. Yudin)

Introduction

2-Helium He-4	8-Oxygen O-16 O-17 O-18	13-Aluminium Al-27	18 Argon Ar-36 Ar-38 Ar-40
3-Lithium Li-6 Li-7	9-Fluorine F-19	14-Silicon Si-28 Si-29 Si-30	19-Potassium K-39 K-41
4-Beryllium Be-9	10-Neon Ne-20 Ne-21 Ne-22	15-Phosphorus P-31	20-Calcium Ca-40 Ca-42 Ca-43 Ca-44 Ca-46 Ca-48
5-Boron B-10 B-11	11-Sodium Na-23	16-Sulfur S-32 S-33 S-34 S-36	
6-Carbon C-12 C-13 C-14	12-Magnesium Mg-24 Mg-25 Mg-26	17-Chlorine Cl-35 Cl-37	
7-Nitrogen N-14 N-15			

Mass excess diagrams

3 Properties of low-lying levels in the isotopes from $Z = 21$ to $Z = 36$ (V.Yu. Ponomarev)

Introduction

21-Scandium	25-Manganese	29-Copper	33-Arsenic
Sc-43	Mn-51	Cu-61	As-73
Sc-44	Mn-52	Cu-62	As-75
Sc-45	Mn-53	Cu-63	As-77
Sc-46	Mn-54	Cu-64	
Sc-47	Mn-55	Cu-65	34-Selenium
Sc-49	Mn-56	Cu-66	Se-72
			Se-73
22-Titanium	26-Iron	30-Zinc	Se-74
Ti-44	Fe-52	Zn-62	Se-75
Ti-45	Fe-53	Zn-63	Se-76
Ti-46	Fe-54	Zn-64	Se-77
Ti-47	Fe-55	Zn-65	Se-78
Ti-48	Fe-56	Zn-66	Se-79
Ti-49	Fe-57	Zn-67	Se-80
Ti-50	Fe-58	Zn-68	Se-81
Ti-51	Fe-59	Zn-69	Se-82
Ti-52	Fe-60	Zn-70	Se-83
23-Vanadium	27-Cobalt	31-Gallium	35-Bromium
V-47	Co-55	Ga-66	Br-73
V-48	Co-56	Ga-67	Br-76
V-49	Co-57	Ga-68	Br-77
V-50	Co-58	Ga-69	Br-79
V-51	Co-59	Ga-70	Br-81
V-52	Co-60	Ga-71	
24-Chromium	28-Nickel	32-Germanium	36-Krypton
Cr-49	Ni-57	Ge-68	Kr-76
Cr-50	Ni-58	Ge-69	Kr-78
Cr-51	Ni-59	Ge-70	Kr-79
Cr-52	Ni-60	Ge-71	Kr-80
Cr-53	Ni-61	Ge-72	Kr-81
Cr-54	Ni-62	Ge-73	Kr-82
Cr-55	Ni-63	Ge-74	Kr-83
	Ni-64	Ge-75	Kr-84
		Ge-76	Kr-85
		Ge-77	Kr-86

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