

Contents

1	Introduction	1
1.1	General remarks	1
1.2	The Nuclear Resonance Fluorescence Method (U. KNEISSL, A. ZILGES)	4
1.2.1	Cross Sections, Transition Widths, and Reduced Transition Probabilities	5
1.2.2	Angular Distributions and Spin Assignments	6
1.2.3	Parity Assignments, Polarization Observables	6
1.2.4	<i>K</i> -Number Assignments	9
1.2.5	NRF-Facilities and Experimental Techniques	9
1.2.6	Topics in Nuclear Structure Physics Studied by NRF-Experiments	11
1.3	Cluster models in nuclear astrophysics (P. DESCOUVEMONT)	13
1.3.1	Introduction	13
1.3.2	Cross sections and reaction rates	14
1.3.2.1	Cross sections	14
1.3.2.2	Reaction rates	15
1.3.3	Theoretical models	17
1.3.3.1	Introduction	17
1.3.3.2	Microscopic cluster theories	18
1.3.3.3	The potential model	19
1.3.3.4	The phenomenological <i>R</i> -matrix method	21
1.3.3.5	The DWBA method	22
1.3.3.6	Indirect methods	23
1.3.4	Specific applications	23
1.3.4.1	Application of the RGM	23
1.3.4.2	Application of the potential method	24
1.3.4.3	Application of the <i>R</i> -matrix method	25
1.3.5	Conclusion	26
1.3.6	Acknowledgments	27
1.4	Data presentation	28
1.5	Conclusions	32
1.6	Acknowledgments	32
2	Tables	33
30-Zinc	Zn-66	47
	Zn-74	57
Zn-59 33	Zn-67	51
Zn-60 33	Zn-68	51
Zn-61 33	Zn-69	52
Zn-62 35	Zn-70	52
Zn-63 37	Zn-71	53
Zn-64 38	Zn-72	57
Zn-65 41	Zn-73	57

31-Gallium		As-71	109	Br-87	171
Ga-61	60	As-72	113	Br-88	171
Ga-62	60	As-73	114	Br-92	171
Ga-63	60	As-74	115		
Ga-64	61	As-75	116	36-Krypton	
Ga-65	62	As-76	117	Kr-72	172
Ga-66	70	As-77	117	Kr-73	173
Ga-67	70	As-78	118	Kr-74	174
Ga-68	71	As-79	119	Kr-75	175
Ga-69	72	As-80	119	Kr-76	176
Ga-70	72	As-81	120	Kr-77	178
Ga-71	73	As-82	121	Kr-78	180
Ga-72	75	As-83	121	Kr-79	182
Ga-73	76	As-84	121	Kr-80	183
Ga-74	77			Kr-81	184
Ga-75	77	34-Selenium		Kr-82	185
Ga-76	78	Se-67	122	Kr-83	186
Ga-77	78	Se-68	122	Kr-84	187
Ga-78	79	Se-69	122	Kr-85	188
Ga-79	79	Se-70	124	Kr-86	188
Ga-80	80	Se-71	125	Kr-87	188
Ga-81	80	Se-72	125	Kr-88	190
Ga-82	80	Se-73	127	Kr-89	191
Ga-84	80	Se-74	128	Kr-90	191
		Se-75	132	Kr-91	192
32-Germanium		Se-76	133	Kr-92	192
Ge-61	81	Se-77	135	Kr-93	193
Ge-64	81	Se-78	137	Kr-94	193
Ge-65	81	Se-79	142	Kr-95	193
Ge-66	82	Se-80	144	Kr-96	193
Ge-67	83	Se-81	146		
Ge-68	83	Se-82	149	37-Rubidium	
Ge-69	86	Se-83	150	Rb-73	194
Ge-70	86	Se-84	150	Rb-74	194
Ge-71	87	Se-85	152	Rb-75	195
Ge-72	92	Se-86	152	Rb-76	198
Ge-73	97	Se-88	152	Rb-77	199
Ge-74	98			Rb-78	200
Ge-75	99	35-Bromine		Rb-79	201
Ge-76	100	Br-69	153	Rb-80	204
Ge-77	101	Br-70	153	Rb-81	205
Ge-78	101	Br-71	153	Rb-82	208
Ge-79	102	Br-72	155	Rb-83	209
Ge-80	103	Br-73	156	Rb-84	213
Ge-81	103	Br-74	157	Rb-85	216
Ge-82	104	Br-75	158	Rb-86	216
Ge-83	104	Br-76	159	Rb-87	217
Ge-84	104	Br-77	160	Rb-88	217
Ge-85	104	Br-78	161	Rb-89	219
		Br-79	163	Rb-90	220
33-Arsenic		Br-80	165	Rb-91	220
As-65	105	Br-81	167	Rb-92	221
As-66	105	Br-82	168	Rb-93	221
As-67	105	Br-83	169	Rb-94	223
As-68	106	Br-84	169	Rb-95	223
As-69	106	Br-85	170	Rb-96	224
As-70	109	Br-86	171	Rb-98	224

38-Strontium

Sr-76	225
Sr-77	225
Sr-78	226
Sr-79	226
Sr-80	228
Sr-81	229
Sr-82	232
Sr-83	233
Sr-84	234
Sr-85	236
Sr-86	236
Sr-87	236
Sr-88	237
Sr-89	245
Sr-90	246
Sr-91	247
Sr-92	247
Sr-93	248
Sr-94	250
Sr-95	251
Sr-96	252
Sr-97	254
Sr-98	255
Sr-99	255
Sr-100	256
Sr-101	256
Sr-102	256

39-Yttrium

Y-78	257
Y-79	257
Y-80	257
Y-81	259
Y-82	260
Y-83	262
Y-84	263
Y-85	264
Y-86	266
Y-87	268
Y-88	270
Y-89	271
Y-90	279
Y-91	279
Y-92	280
Y-93	280
Y-94	282
Y-95	282
Y-96	283
Y-97	283
Y-98	284
Y-99	284
Y-100	285
Y-101	286
Y-102	286

40-Zirconium

Zr-80	287
Zr-81	287
Zr-82	288
Zr-83	289
Zr-84	290
Zr-85	292
Zr-86	292
Zr-87	294
Zr-88	294
Zr-89	295
Zr-90	295
Zr-91	304
Zr-92	306
Zr-93	307
Zr-94	309
Zr-95	310
Zr-96	314
Zr-97	316
Zr-98	317
Zr-99	318
Zr-100	319
Zr-101	320
Zr-102	321
Zr-103	322
Zr-104	323

41-Niobium

Nb-82	324
Nb-83	324
Nb-84	324
Nb-85	325
Nb-86	326
Nb-87	328
Nb-88	329
Nb-89	329
Nb-90	330
Nb-91	331
Nb-92	332
Nb-93	333
Nb-94	336
Nb-95	337
Nb-96	339
Nb-97	340
Nb-98	341
Nb-99	341
Nb-100	342
Nb-101	342
Nb-102	343
Nb-103	344
Nb-104	344
Nb-105	345
Nb-106	345

42-Molybdenum

Mo-84	346
Mo-85	346

Mo-86	346
Mo-87	347
Mo-88	348
Mo-89	349
Mo-90	349
Mo-91	350
Mo-92	352
Mo-93	358
Mo-94	361
Mo-95	364
Mo-96	366
Mo-97	369
Mo-98	371
Mo-99	380
Mo-100	382
Mo-101	390
Mo-102	391
Mo-103	392
Mo-104	392
Mo-105	394
Mo-106	395
Mo-107	396
Mo-108	396
Mo-109	397
Mo-110	397

43-Technetium

Tc-86	398
Tc-87	398
Tc-88	398
Tc-89	399
Tc-90	399
Tc-91	400
Tc-92	401
Tc-93	402
Tc-94	406
Tc-95	408
Tc-96	411
Tc-97	413
Tc-98	416
Tc-99	417
Tc-100	419
Tc-101	420
Tc-102	421
Tc-103	421
Tc-104	422
Tc-105	422
Tc-106	423
Tc-107	423
Tc-108	424
Tc-109	425
Tc-110	426
Tc-111	426
Tc-112	426
Tc-113	426

44-Ruthenium			
Ru-88	427	Rh-102	465
Ru-89	427	Rh-103	467
Ru-90	427	Rh-104	473
Ru-91	428	Rh-105	475
Ru-92	428	Rh-106	478
Ru-93	428	Rh-107	479
Ru-94	429	Rh-108	480
Ru-95	430	Rh-109	480
Ru-96	431	Rh-110	481
Ru-97	433	Rh-111	482
Ru-98	435	Rh-112	483
Ru-99	436	Rh-113	483
Ru-100	438	Rh-114	484
Ru-101	441	Rh-115	484
Ru-102	442	Rh-116	484
Ru-103	444		
Ru-104	446	46-Palladium	
Ru-105	447	Pd-92	485
Ru-106	448	Pd-93	485
Ru-107	448	Pd-94	485
Ru-108	449	Pd-95	486
Ru-109	451	Pd-96	487
Ru-110	452	Pd-97	487
Ru-111	453	Pd-98	489
Ru-112	454	Pd-99	490
Ru-113	455	Pd-100	491
Ru-114	455	Pd-101	492
		Pd-102	494
45-Rhodium		Pd-103	495
Rh-91	456	Pd-104	497
Rh-92	456	Pd-105	499
Rh-93	457	Pd-106	501
Rh-94	457	Pd-107	503
Rh-95	458	Pd-108	504
Rh-96	459	Pd-109	506
Rh-97	460	Pd-110	508
Rh-98	461	Pd-111	510
Rh-99	461	Pd-112	510
Rh-100	463	Pd-113	511
Rh-101	464	Pd-114	512
		Pd-115	513
		Pd-116	514
		Pd-117	515
		Pd-118	516
		Pd-120	516
		Pd-121	516
		47-Silver	
		Ag-94	517
		Ag-95	517
		Ag-96	517
		Ag-97	517
		Ag-98	518
		Ag-99	518
		Ag-100	519
		Ag-101	520
		Ag-102	520
		Ag-103	521
		Ag-104	523
		Ag-105	525
		Ag-106	526
		Ag-107	531
		Ag-108	533
		Ag-109	534
		Ag-110	535
		Ag-111	535
		Ag-112	537
		Ag-113	538
		Ag-114	538
		Ag-115	538
		Ag-116	539
		Ag-117	540
		Ag-118	540
		Ag-119	541
		Ag-120	541
		Ag-121	541
		Ag-122	541
		Ag-123	542
		Ag-125	542
		Ag-129	542

3 References	543
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