

Contents

1	Introduction	1
1.1	General remarks	1
1.2	Data collection and presentation	3
1.3	List of notations	6
1.4	The astrophysical aspect of resonance parameters	11
1.5	Data from high-resolution measurements	11
1.6	Investigations of isobar-analog resonances	15
1.7	Standards and material testing	18
1.8	Conclusions	19
1.9	Acknowledgements	19
2	Tables	20
2-Helium		
He-5	20	
3-Lithium		
Li-5	20	
Li-6	20	
Li-7	21	
4-Beryllium		
Be-6	21	
Be-7	21	
Be-8	22	
Be-9	24	
Be-10	25	
5-Boron		
B-8	26	
B-9	26	
B-10	27	
B-11	30	
B-12	33	
B-13	33	
B-14	33	
6-Carbon		
C-9	34	
C-10	34	
C-11	34	
C-12	36	
C-13	40	
C-14	43	
C-15	44	
C-16	44	
7-Nitrogen		
N-11	45	
N-12	45	
N-13	45	
N-14	48	
N-15	54	
N-16	59	
N-17	60	
N-18	61	
N-19	61	
8-Oxygen		
O-14	62	
O-15	62	
O-16	67	
O-17	75	
O-18	78	
O-19	80	
9-Fluorine		
F-15	81	
F-16	81	
F-17	81	
F-18	85	
F-19	102	
10-Neon		
Ne-18	114	
Ne-19	115	
Ne-20	119	
Ne-21	128	
Ne-22	132	
11-Sodium		
Na-19	136	
Na-20	136	
Na-21	136	
Na-22	139	
Na-23	145	
12-Magnesium		
Mg-22	157	
Mg-23	159	
Mg-24	160	
Mg-25	176	
Mg-26	181	

13-Aluminium		15-Phosphorus		17-Chlorine	
Al-23	188	P-27	254	Cl-31	310
Al-24	188	P-28	254	Cl-32	310
Al-25	189	P-29	255	Cl-33	311
Al-26	193	P-30	258	Cl-34	314
Al-27	206	P-31	265	Cl-35	322
				Cl-37	332
14-Silicon		16-Sulfur		18-Argon	
Si-25	223	S-30	284	Ar-36	346
Si-26	223	S-31	285	Ar-38	360
Si-27	224	S-32	286	Ar-40	383
Si-28	226	S-33	299		
Si-29	242	S-34	304		
Si-30	246				
3 References					388
Supplement (complete sets of resonance parameters)					CD-ROM