^{64}Ni(d,^{3}He) 1991Se09,1979Ha03

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huo Junde, Yang Dong, Huo Meirong,	ENSDF	28-Aug-2008

1979Ha03: E=55 MeV, FWHM=100 keV, measured σ(E(^{3}He),θ), DWBA analysis L=0, 1, 2, 3, and 5 are assumed to be s1/2, p3/2, d3/2, f7/2, and h11/2 C^2S is defined by $d\sigma/d\Omega(exp)=2.95\times C^2S\times d\sigma/d\Omega(DWUCK)/(2J+1)$.
1991Se09: ^{64}Ni(d,^{3}He),(polarized d,^{3}He), E=52 MeV; measured σ(E(^{3}He)), $\sigma(\theta)$, vector analyzing power.
All data are from 1991Se09, except as noted.

^{63}Co Levels

E(level)	J^{π} [@]	L [†]	S [‡#]	E(level)	L [†]	S [‡#]	E(level)	L [†]	S [‡#]
0	7/2$^-$	3	4.53	3031 *5*	3	0.19,0.10	4538 *5*	(2)	0.05,0.03
992 *5*	3/2$^-$	1	0.34	3135 *5*	(3)	0.14,0.07	4588 *5*	(2)	0.08,0.05
1382 *5*			0.06,0.03	3172 *5*	(3)	0.51,0.26	4700 *5*	(2)	0.04,0.03
1423 *5*		(3)	0.01,0.01	3412 *5*	3,2		4722 *5*	(2)	0.05,0.03
1491 *5*			0.08,0.04	3604 *5*	3	0.09,0.18	4820 *5*	(2)	0.07,0.04
1668 *5*		(5)	0.17,40.54	3676 *5*	3	0.10,0.05	4886 *5*	(2)	0.13,0.08
1888 *5*	1/2$^-$	1	0.04	3766 *5*	3	0.15,0.07	4968 *5*	(2)	0.03,0.02
2082 *5*		3		3893 *5*	(2)	0.47,0.24	5010 *5*	(2)	0.05,0.03
2129 *5*	7/2$^-$	3	0.73	3985 *5*	3	0.22,0.14	5080 *5*	(2)	0.14,0.09
2191 *5*	1/2$^+$	0	0.83	4039 *5*	(2)	0.02,0.01	5215 *5*	(2)	0.12,0.07
2330 *5*	7/2$^-$	3	0.68	4094 *5*	(2)	0.09,0.04	5294 *5*	(2)	0.10,0.06
2473 *5*		3	0.06,0.03	4127 *5*	(2)	0.15,0.10	5342 *5*	(2)	0.11,0.07
2689 *5*		2	0.99,0.61	4234 *5*	(2)	0.22,0.14	5457 *5*	(2)	0.11,0.07
2791 *5*		3	0.14,0.07	4376 *5*	(2)	0.20,0.13	5659 *5*	2	0.12,0.07
2882 *5*		1	0.02,0.01	4453 *5*	(2)	0.11,0.07			
2929 *5*		(3)	0.17,0.09	4524 *5*	(2)	0.07,0.03			

[†] From 1979Ha03.
[‡] $S=C^2S$.
[#] For given J or for J=L−1/2, L+1/2.
[@] From analyzing power.