^{64}Ni(α,t) 1970Ro22

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 111, 2425 (2010)	1-Aug-2009

All data are from 1970Ro22. Others: 1967Ar05, 1967Mi09.
Eα=44 MeV, FWHM=80-120 keV; measured σ(E(t),θ), θ=13-63°; DWBA analysis; deduced L, C^2S'.
Other: 1999Da24.

^{65}Cu Levels

E(level)†	L‡	C^2S'	E(level)†	L‡	C^2S'	E(level)†	L‡	C^2S'
0	1	1.18	2540	4	3.15	3500	(3),(4)	1.10,0.40
770	1	0.47	2780	(3),(4)	0.49,0.21	3650	(3),(4)	0.48,0.19
1115	3	1.95	2900	(3),(4)	1.02,0.42	3770	(3),(4)	0.96,0.40
1480	3	0.55	3060	1	0.36	3890	1	0.36
1620	3	3.74	3170	2	0.13	4090	(3),(4)	0.72,0.30
2120	3	0.38	3290	2	0.14	4200	4	0.75
2210	2	0.12	3400	(3),(4)	1.20,0.50	4300	(3),(4)	0.90,0.40

† Uncertainty not given explicitly by the authors of 1970Ro22, but estimated by the evaluators to be ≈50 keV.
‡ From DWBA analysis of $\sigma(\theta)$.