^{92}Mo(α,α') 1988Du17,1975Bu04,1968Ma30

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 113, 2187 (2012)	15-Sep-2012

Other: 1978Mo10.
1988Du17: E(α)=152 MeV; FWHM=300 keV; θ(lab)=1.3°−12°; DWBA analysis of GQR and GMR structure.
1975Bu04: E(α)=32.2 MeV, FWHM=90-120 keV, θ(c.m.)=20°−84°. DWBA analysis of $\sigma(\theta)$ for 15 levels.
1968Ma30: E(α)=31 MeV, FWHM=75 keV, θ(c.m.)≈25°−70°. DWBA analysis of $\sigma(\theta)$ for 14 levels.
For optical-model parameters deduced from elastic scattering, see 2001Fu19.

^{92}Mo Levels

E(level)[†]	L[‡]	β_LR[#]	E(level)[†]	Γ	L[‡]	β_LR[#]
0			4510 *24*		4	0.24
1510 *17*	2	0.42	4590 *24*			
2280 *17*	4	0.27	4940 *24*			
2520 *17*	5	0.33	5090 *24*		4	0.32
2613 *17*	6	0.18	5320 *24*		3	0.16
2850 *24*	3	0.70	5656 *24*		3	0.30
3090 *24*	2	0.25	5780[&] *40*		3	0.36
3570 *24*	3	0.22	5890[&] *40*		(3)	0.25
3920 *24*	2	0.26	14.13×10^3[@a] *20*	4.55[@] MeV *34*	2[@]	
4160 *24*	4	0.30	16.22×10^3[@b] *20*	4.78[@] MeV *30*	0[@]	
4310 *24*						

[†] Weighted average of almost identical energies from 1975Bu04 and 1968Ma30.
[‡] From DWBA analysis of $\sigma(\theta)$ (1975Bu04).
[#] β_LR from 1975Bu04; R=6.455 fm.
[@] From 1988Du17.
[&] From 1975Bu04. 1968Ma30 report a doublet at E=5820 keV *30*.
[a] GQR. %EWSR=23 *5* (1988Du17).
[b] GMR. %EWSR=84 *17* (1988Du17).