^{31}P(e,e′p) 1992We08

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia, A. Chakraborty	NDS 197,1 (2024)	31-May-2024

$J^\pi(^{31}P)=1/2^+$.

1992We08: E_e=330, 454 MeV; measured excitation spectra at given central missing momentum; deduced rms radii, momentum distributions, integrated knockout spectroscopic strength. FWHM=130 keV.

1973Ts01: E=16-26 MeV; measured $\sigma(E;E_p)$; deduced cross section.

^{30}Si Levels

E(level)[†]	J^π[#]	C^2S[@]	Comments
0	0^+	0.40 *3*	1.93 mb MeV/sr *21* for E_e=25.68-13.82 MeV at 90° (1973Ts01).
2236	2^+	0.60 *5*	0.69 mb MeV/sr *48* for E_e=25.68-15.75 MeV at 90° (1973Ts01).
3498	2^+	0.28 *2*	
3572[‡]	0^+	0.050 *4*	E(level): not adopted − appears to be a spurious level.
3770	1^+	0.10 *3*	C^2S: for doublet.
3787	0^+	0.10 *2*	C^2S: for doublet.
5230	3^+	1.02 *6*	
6840[‡]		0.08 *3*	E(level): not adopted − appears to be a spurious level.
7630[‡]	$(1,2)^+$	0.017 *7*	

† From 1992We08, except otherwise noted.

‡ Authors of 1992We08 note that the level was not completely resolved from adjacent states.

From the Adopted Levels.

@ Authors of 1992We08 note as spectroscopic factor. In Table 3 the C^2S data are from Ref. 24.