^{29}Si(pol p,π^-) 1987Ca05

History

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

$J^\pi(^{29}Si)=1/2^+$.

SiO_2 target, E_p=199.6 MeV; pions were detected using the quadrupole-quadrupole split-dipole (QQSP) pion spectrograph. The focal plane detection system consists of a vertical drift chamber (VDC) followed by three plastic scintillators; deduced level, spin. FWHM=150 keV.

^{30}S Levels

E(level)†	Jπ†
0.0	
2190 *10*	
3490 *10*	
5950 *10*	4,5
7460 *10*	4,5
9130 *10*	4,5
10070 *10*	4,5

† From 1987Ca05. The possible spin values resulting from the stretched two-particle one-hole configuration $[(d_{3/2})^{+2}\ (d_{5/2})^1]_{9/2}$ coupled to the $1/2^+$ target.