
 $^{30}\text{Si}(\text{p},\text{p}')$ **1960Wh04**

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

Other: [1960Wa15](#) (p,p'γ).

[1960Wh04](#): Natural SiO₂ target, E_p=8.588, 8.001, and 7.446 MeV; measured proton spectra at 30°, 50°, 90°, and 130° with the MIT broad-range magnetic spectrograph. Deduced excited levels. FWHM=7.5 keV.

[1974Wa19](#): 1.5 mg/cm² ³⁰SiO₂ target, evaporated onto a 13 mg/cm² Ag foil was bombarded by 7.0-MeV protons from the Brookhaven National Laboratory (BNL) MP tandem Van de Graaff facility and e⁺-e⁻ pairs were observed with the BNL magnetic-lens intermediate-image pair spectrometer; deduced E0 transition strength for 0⁺ to 0⁺ (3788 to g.s.).

 ^{30}Si Levels

E(level) [†]	J ^π	Comments
0	0 ⁺	E(level),J ^π : from the Adopted Levels.
2232 6	2 ⁺	
3493 6		
3765 6		
3785 6	0 ⁺	(2.7 4) × 10 ³ – measured e-e pair emission to 0 ⁺ g.s. (1974Wa19). B(E0)=0.054 9 (s.p.) (1974Wa19 – using τ=15.8 ps 13). J ^π : from the Adopted Levels.
4805 6		
4827 6		
5220 7		
5365 7		
5477 7	3 ⁻	
5610 7		

[†] From [1960Wh04](#).