		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 201,1 (2025)	31-Oct-2024

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

1987Da03: E=25 MeV α beam was produced from the University of Birmingham Radial Ridge cyclotron. Target was self-supporting enriched SiO₂ with a thickness of about 100 μ g/cm². Reaction products were detected with Δ E-E telescopes of solid-state detectors. Measured σ (E_p, θ), θ _{cm}=15° to 100°. Deduced levels, J, π , L-transfers and spectroscopic factors from DWBA analysis.

Others: 1976Va09, 1973Va14, 1971St33, 1970Va12, 1970Mo09.

³²P Levels

E(level) [†]	L	S [‡]	Comments
0 80			E(level): unresolved with g.s.
510	(0)	1.0	L: $\sigma(\theta)$ fitted with a J=1/2 transfer.
1150		0.236,0.261	S: for $J=1/2$ and $3/2$ transfers, respectively. J=1/2 transfer fits better than $3/2$ (1987Da03).
1320		0.528,0.395	S: for $J=3/2$ and $5/2$ transfers, respectively.
			J=5/2 transfer fits better than $3/2$ (1987Da03).
1750		0.256,0.631	S: for J=5/2 and 7/2 transfers, respectively.
			J=7/2 transfer fits better than $5/2$ (1987Da03).
3000			
3150			
3260			
3440			
3800 [#]			
4030 [#]			
4150 [#]			
4280			
4620	(0)		L: similarity of $\sigma(\theta)$ pattern with that of 510 level.
4740 [#]			

[†] From 1987Da03, unless otherwise noted.

[‡] Relative spectroscopic factor (1987Da03).

[#] From 1976Va09.