

$^{30}\text{Si}(^{16}\text{O},^{14}\text{C})$  [1976Si05](#),[1975Ts01](#)

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

[1976Si05](#): E=126 MeV  $^{16}\text{O}$  beam was produced from the variable-energy cyclotron at Harwell. Target was  $^{30}\text{Si}$ . Reaction products were detected with a counter telescope of  $\Delta E$ -E solid-state detector. Measured energy spectrum.

[1975Ts01](#): E=73.5 MeV  $^{16}\text{O}$  beam was from the Heidelberg MP tandem Van de Graaff accelerator. Enriched  $\text{SiO}_2$  targets. Measured  $\sigma(\theta)$ . Deduced L-transfer for g.s. from analysis.

 $^{32}\text{S}$  Levels

E(level)	J $\pi$ <sup>#</sup>	L	Comments
0	0 <sup>+</sup>	0	L: from <a href="#">1975Ts01</a> .
2231 <sup>‡</sup>	2 <sup>+</sup>		
4460 <sup>‡</sup>	4 <sup>+</sup>		
5010 <sup>†</sup>	3 <sup>-</sup>		
6760 <sup>†</sup>	5 <sup>-</sup>		

<sup>†</sup> From [1976Si05](#).

<sup>‡</sup> Peak observed in Fig.12 of [1976Si05](#), labelled with known spin-parity but not energy. Quoted energy values here are rounded values from Adopted Levels.

<sup>#</sup> From Adopted Levels.