
 $^{32}\text{S}(\text{n},\text{d})$ [1968Wa03](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh		NDS 184, 29 (2022)	24-Jun-2022

[1968Wa03](#): E=14.1 MeV neutrons. Enriched ^{32}S targets (99.9% ^{32}S). Proportional counters and CsI scintillator for particle detection. Deuteron spectra and angular distributions measured. DWBA and Butler theory analysis.

[1964Co18](#): E=14 MeV neutrons. Reported g.s. and a level at 450 *100*. Measured angular distribution indicated $1/2^+$ based on Butler theory, for g.s. and the 450 level. However, the 450 level is not confirmed in other studies and could corresponds to some impurity.

Others: [1975Pe10](#), [1963Za01](#) (also [1963Za05](#),[1961Za01](#)), [1960Co12](#), [1960Ve06](#).

 ^{31}P Levels

E(level)	$L^\dagger$	$S^\dagger$	Comments
0	0	3.0 2	L: also from 1963Za01 . $\sigma=25.6$ mb/sr 19 (1968Wa03), at $\theta=0^\circ$.
1270		4.9 12	$\sigma=1.4$ mb/sr 3 (1968Wa03), average over $\theta=9^\circ-43^\circ$.
2230		10.2 18	$\sigma=1.5$ mb/sr 4 (1968Wa03), average over $\theta=9^\circ-43^\circ$.

[†] From DWBA analysis of measured $\sigma(\theta)$ in [1968Wa03](#).