

$^9\text{Be}(^{30}\text{S}, ^{29}\text{S}\gamma)$ **2010Re05**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 113, 909 (2012)	1-Jan-2012

$E(^{30}\text{S})=103$ MeV/nucleon; measured $E\gamma$, $\gamma\gamma$ coin, and σ using an array of 17 high-purity 32-fold segmented Ge detectors; Primary beam of 150 MeV/nucleon ^{36}Ar , deduced excited level energy, cross sections. Comparison with shell-model calculations.

 ^{29}S Levels

E(level)	J^π [†]	σ (mb)	Comments
0	(5/2 ⁺)	22.6 27	Inclusive cross section (total) $\sigma=27.5$ mb 26.
1222 20	(1/2 ⁺)	3.09 33	
1727 37	(7/2 ⁺)		
2887 40	(5/2 ⁺)	1.86 15	

[†] Tentative assignments from shell-model predictions.

 $\gamma(^{29}\text{S})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
1160 16	2887	(5/2 ⁺)	1727	(7/2 ⁺)
1222 20	1222	(1/2 ⁺)	0	(5/2 ⁺)
1727 37	1727	(7/2 ⁺)	0	(5/2 ⁺)

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