C(³⁶S,Xγ) 2008So09

History						
Туре	Author	Citation	Literature Cutoff Date			
Full Evaluation	M. Shamsuzzoha Basunia	NDS 127, 69(2015)	1-Apr-2015			

²²N was obtained from fragmentation of primary ³⁶S beam on carbon target (thickness 348 mg/cm²), E=77.5 MeV/nucleon, followed by product nuclei selection by ALPHA spectrometer at GANIL and secondary beams of fragments for florine to magnesium with energies varying from 54 to 65 MeV passed an "active" target composed of a plastic scintillator (103 mg/cm²) sandwiched between two carbon foils (51 mg/cm²) at the dispersive focus of the SPEG spectrometer. Fragments of secondary beam were collected and identified at the focal plane in the SPEG spectrometer and 525 ²²N nuclei were observed. Measured Eγ, Iγ, γγ-coin using 74 BaF₂ crystals and four HPGe detectors.

²²N Levels

E(level)	$J^{\pi \dagger}$	
0	(0^{-})	
183 <i>16</i>	(1^{-})	
1017 <i>25</i>	(2^{-})	

[†] From comparison with shell-model calculations.

 $\gamma(^{22}N)$

Legend

 $\begin{array}{l} \bullet \quad I_{\gamma} < \quad 2\% \times I_{\gamma}^{max} \\ \bullet \quad I_{\gamma} < 10\% \times I_{\gamma}^{max} \\ \bullet \quad I_{\gamma} > 10\% \times I_{\gamma}^{max} \end{array}$

Eγ	Iγ	E_i (level)	\mathbf{J}_i^{π}	\mathbf{E}_{f}	\mathbf{J}_f^{π}
183 <i>16</i>	100 22	183	(1^{-})	0	(0 ⁻)
834 <i>19</i>	41 9	1017	(2^{-})	183	(1 ⁻)

$C(^{36}S,X\gamma)$	2008So09
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