^{9}Be(^{36}S,Xγ) 2002Az02

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia[#], A. Chakraborty[##]	NDS 171, 1 (2021)	1-Jun-2020

Others: 2002Az01, 2002Gu08 – Same research group of 2002Az02.
Minor change from previous evaluation (2007Fi02).
2002Az02 (also 2002Az01, 2002Gu08): ^{23}F produced from projectile fragmentation of ^{36}S beam, E=77 MeV/nucleon, on a Be-target at GANIL. The SPEG spectrometer along with an array of 74 BaF_2 detectors and 4 Ge detectors were used. FWHM 35 keV at 1500 keV γ-ray emitted at 35% of the speed of light.

^{23}F Levels

E(level)[‡]	J$^{\pi}$[†]
0.0	(5/2$^+$)
2900	(7/2$^+$)
3810	(9/2$^+$)

[†] From shell model calculations.
[‡] From γ-ray energies.

γ(^{23}F)

E$_\gamma$	E$_i$(level)	J$_i^{\pi}$	E$_f$	J$_f^{\pi}$
910	3810	(9/2$^+$)	2900	(7/2$^+$)
2900	2900	(7/2$^+$)	0.0	(5/2$^+$)

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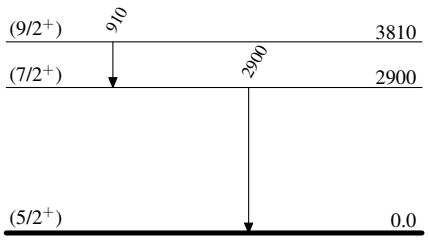
Level Scheme



$^{23}_{9}F_{14}$