^{9}Be(^{32}S,^{31}Sγ) 2004Ga15

History

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

One-neutron knockout reaction.

2004Ga15: Beam=^{32}S at 62.8 MeV/nucleon produced by fragmentation of ^{36}Ar beam at 150 MeV/nucleon by a ^{9}Be target and separated by A1900 fragment-recoil separator at NSCL facility. Target=^{9}Be placed at target position of the S800 spectrograph. Measured Eγ, Iγ, (particle)γ coin with the segmented Ge-detector array (SeGA) consisting of 32-fold segmented Ge detectors.

^{31}S Levels

E(level)	J$^{\pi}$[†]	Comments
0	1/2$^+$	C^{2}S=0.85 *21*. σ ≤12 mb *3*, 11 mb *3* from momentum distribution. Inclusive σ=36 mb *4*.
1249 *7*	3/2$^+$	C^{2}S=1.22 *20*. σ ≤12 mb *2*.
2242 *9*	5/2$^+$	C^{2}S=1.28 *32*. σ ≤12 mb *3*.

[†] From the Adopted Levels.

γ(^{31}S)

E$_\gamma$	E$_i$(level)	J$_i^{\pi}$	E$_f$	J$_f^{\pi}$
1249 *7*	1249	3/2$^+$	0	1/2$^+$
2242 *9*	2242	5/2$^+$	0	1/2$^+$

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Level Scheme