

$^9\text{Be}(^{32}\text{Mg},2\text{p}\gamma)$ **2010Fa04**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 111, 2331 (2010)		30-Jun-2010

Other: [2007RoZY](#), [2006FaZX](#).

2010Fa04, 2007RoZY, 2006FaZX: ^{30}Ne was produced from a ^{48}Ca primary beam fragmentation ($E=140$ MeV/A) followed by 2p knockout reaction of ^{32}Mg secondary beam on ^9Be (inclusive cross section=0.22 3 mb); Detector: Segmented HPGe array SeGA; Reported measured $E\gamma$ and level scheme. In [2006FaZX](#), a tentative 1090γ is placed from a tentative 4^+ state at 1883 keV to 2^+ state at 797 keV level. This 1090γ is discarded in [2010Fa04](#).

All data are from [2010Fa04](#). ^{30}Ne Levels

E(level)	J $^\pi$ [†]	Comments
0.0	0 $^+$	
792 4 2235 12	(2 $^+$) (4 $^+$)	J^π : In addition to the comparison of the experimental level energy with the predicted level energy by the MCSM calculation, the properties of direct two-proton knockout from the $1d_{5/2}$ level are used to constrain the data for the $J^\pi=(4_1^+)$ assignment (2010Fa04).

[†] From [2010Fa04](#), based on comparison of the experimental level energy with the predicted level energy by MCSM.

 $\gamma(^{30}\text{Ne})$

E $_\gamma$	I $_\gamma$	E $_i$ (level)	J $^\pi_i$	E $_f$	J $^\pi_f$
792 4	100	792	(2 $^+$)	0.0	0 $^+$
1443 11	39 12	2235	(4 $^+$)	792	(2 $^+$)

$^9\text{Be}(\text{³²Mg},2\text{p}) \quad 2010\text{Fa04}$

Legend

Level Scheme

Intensities: Relative I_γ

- > $I_\gamma < 2\% \times I_\gamma^{\max}$
- > $I_\gamma < 10\% \times I_\gamma^{\max}$
- > $I_\gamma > 10\% \times I_\gamma^{\max}$

