

${}^9\text{Be}({}^{67}\text{Co}, {}^{66}\text{Fe}\gamma)$ 2008Ad04

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 111, 1093 (2010)	3-Mar-2009

Additional information 1.

One-proton knockout reaction ${}^{67}\text{Co}$ secondary beam produced in the reaction ${}^9\text{Be}({}^{76}\text{Ge}, X)$ with a 130 MeV/nucleon beam provided by the NSCL at MSU. A1900 fragment separator, S800 spectrograph. $E({}^{67}\text{Co})=84.3$ MeV/nucleon. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$ using SeGA array of 32 HPGe detectors.

 ${}^{66}\text{Fe}$ Levels

E(level)	J^π [†]
0	0^+
573 6	(2^+)
1406 11	(4^+)

[†] From Adopted Levels.

 $\gamma({}^{66}\text{Fe})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
571 6	573	(2^+)	0	0^+
833 9	1406	(4^+)	573	(2^+)
^x 957 [†] 10				
^x 1310 [†] 15				

[†] One of these γ -rays may correspond to either a transition from the first 6^+ level to the first 4^+ level at 1406 keV, or from a 2^+ level above 1406 level.

^x γ ray not placed in level scheme.

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Level Scheme

