

${}^9\text{Be}({}^{68}\text{Ni}, {}^{66}\text{Fe}\gamma)$  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.**

Two-proton knockout reaction  ${}^{68}\text{Ni}$  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.  $E({}^{68}\text{Ni})=74.7$  MeV/nucleon. Measured  $E_\gamma$ ,  $I_\gamma$ ,  $\gamma\gamma$  using SeGA array of 32 HPGe detectors.

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

E(level)	$J^\pi$ <sup>†</sup>
0	$0^+$
573 6	$(2^+)$
1405 11	$(4^+)$

<sup>†</sup> From Adopted Levels.

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

A 1310-keV  $\gamma$  ray seen in one-proton knockout reaction is not observed in 2-proton knockout reaction.

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Comments
567 6	573	$(2^+)$	0	$0^+$	
832 9	1405	$(4^+)$	573	$(2^+)$	
<sup>x</sup> 957 10					$E_\gamma$ : may correspond to a transition either from the first $6^+$ level to the first $4^+$ level at 1406 keV, or from a higher $2^+$ level.

<sup>x</sup>  $\gamma$  ray not placed in level scheme.

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Level Scheme

