

${}^9\text{Be}({}^{69}\text{Co},\text{X}\gamma),({}^{70}\text{Ni},\text{X}\gamma)$ 2008Ad04

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 113, 1735 (2012)	1-Mar-2012

One and two proton knockout reactions. Secondary beam produced in the ${}^9\text{Be}({}^{76}\text{Ge},\text{X})$ reaction with $E({}^{76}\text{Ge})=130$ MeV/nucleon. Secondary beam separated by the A1900 Fragment separator with $E({}^{69}\text{Co})=77.8$ MeV/nucleon and $E({}^{70}\text{Ni})=71.8$ MeV/nucleon. Reaction products separated with the S800 spectrograph and identified by ΔE and time of flight. Measured E_γ and I_γ using SeGA array of 16 HPGe detectors.

 ${}^{68}\text{Fe}$ Levels

E(level)	J^π
0.0	0^+
517 6	(2^+)
1376 11	(4^+)

 $\gamma({}^{68}\text{Fe})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
517 6	517	(2^+)	0.0	0^+
^x 808 [†] 9				
859 [†] 9	1376	(4^+)	517	(2^+)

[†] Not observed in the two-proton knockout reaction.

^x γ ray not placed in level scheme.

 ${}^9\text{Be}({}^{69}\text{Co},\text{X}\gamma),({}^{70}\text{Ni},\text{X}\gamma)$ 2008Ad04Level Scheme