

$^{67}\text{Mn}(\text{P},2\text{p}\gamma)$  2015Sa43

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan			11-Nov-2015

**2015Sa43:** Secondary beam of  $^{67}\text{Mn}$  at  $E=260$  MeV/nucleon from fragmentation of a  $^{238}\text{U}$  beam at  $E=345$  MeV/nucleon on a 3-mm thick  $^9\text{Be}$  target. The secondary  $^{67}\text{Mn}$  beam selected by  $B\rho-\Delta E-B\rho$  method using the BigRIPS and ZeroDegree Spectrometers. Secondary beam impinged on MINOS device integrating a liquid hydrogen target and a time projection chamber (TPC) as a vertex tracker. Measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ , proton- $\gamma$  coincidence using the DALI2 array consisting of 186 NaI scintillator detectors coupled with proton tracking using the TPC.

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

E(level) <sup>†</sup>	$J^\pi$ <sup>‡</sup>
0.0	$0^+$
386 10	$(2^+)$
1069 13	$(4^+)$

<sup>†</sup> From  $E\gamma$ .

<sup>‡</sup> From relative intensities of measured  $\gamma$  rays and from systematics along the Fe and Cr isotopic chains (2015Sa43).

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

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
386 10	386	$(2^+)$	0.0	$0^+$
683 9	1069	$(4^+)$	386	$(2^+)$

Legend

 $^{67}\text{Mn}(\text{P},2\text{p}\gamma)$  2015Sa43Level Scheme

● Coincidence

