

${}^1\text{H}({}^{71}\text{Co},2\text{p}\gamma)$ 2015Sa43

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal, E. A. Mccutchan		NDS 136, 1 (2016)	1-Jul-2016

2015Sa43: ${}^{71}\text{Co}$ at $E=260$ MeV/nucleon from fragmentation of a ${}^{238}\text{U}$ beam at $E=345$ MeV/nucleon on a ${}^9\text{Be}$ target. The secondary ${}^{71}\text{Co}$ beam selected by $B\rho\text{-}\Delta E\text{-}B\rho$ method using the BigRIPS and ZeroDegree Spectrometers. Secondary beam impinged on the MINOS device integrating a liquid hydrogen target and a time projection chamber (TPC) as a vertex tracker. Measured E_γ , I_γ , $\gamma\gamma$, proton- γ coincidence using the DALI2 array consisting of 186 NaI scintillator detectors coupled with proton tracking using the TPC.

 ${}^{70}\text{Fe}$ Levels

<u>$E(\text{level})^\dagger$</u>	<u>J^π^\ddagger</u>
0.0	0^+
480 13	(2^+)
1346 16	(4^+)

† From E_γ .

‡ From relative intensities of measured γ rays and from systematics along the Fe and Cr isotopic chains (2015Sa43).

 $\gamma({}^{70}\text{Fe})$

<u>E_γ</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>
480 13	480	(2^+)	0.0	0^+
866 10	1346	(4^+)	480	(2^+)

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Legend

Level Scheme

● Coincidence

