

$^{150}\text{Sm}(\text{p,p}')(\text{p,p}'\gamma)$ 1964Ke03,1983Ra02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, A. A. Sonzogni		NDS 114, 435 (2013)	1-Apr-2013

1964Ke03: products of the $^{150}\text{Sm}(\text{p,p}')$ reaction ($E=12$ MeV) were analyzed in a magnetic spectrograph with 0.1% energy resolution using emulsion techniques. Exposures of 4000 uc or more were taken at 90° , 95° and 133° . Enriched Sm ($300 \mu\text{g}/\text{cm}^2$) on carbon backings ($10\text{-}50 \mu\text{g}/\text{cm}^2$) were used as targets.

1983Ra02: observed the 334-keV γ ray of ^{150}Sm and reported yields for the $^{150}\text{Sm}(\text{p,p}'\gamma)$ reaction at $E(\text{p})=1.7$ and 2.4 MeV.

 ^{150}Sm LevelsE(level)

0
335 6
743 6
777 6
1048 7
1074 7
1172 7
1196 7
1697 9

 $\gamma(^{150}\text{Sm})$

<u>E_γ</u>	<u>$E_i(\text{level})$</u>	<u>E_f</u>
334	335	0

 $^{150}\text{Sm}(\text{p,p}')(\text{p,p}'\gamma)$ 1964Ke03,1983Ra02Level Scheme