

$\text{Ni}({}^{58}\text{Ni},\text{X})$ 2013Su07

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Wang Jimin and Huang Xiaolong		NDS 144, 1 (2017)	1-Mar-2016

2013Su07: ${}^{58}\text{Ni}$ primary beam at $E=68.6$ MeV/nucleon provided by the Heavy Ion Research Facility in Lanzhou (HIRFL). Target= $147 \mu\text{g}/\text{cm}^2$ Ni at the Radioactive Ion Beam Line in Lanzhou (RIBLL). Measured β -delayed protons, (proton) γ -coin, $E\gamma$, $I\gamma$, time-of-flight, energy loss, $T_{1/2}$ using two plastic scintillator films, a thick silicon detector, a double-sided silicon strip detector (DSSSD) and five segmented clover detectors. Performed nucleosynthesis calculations of rapid proton-capture process in an x-ray burst.

 ${}^{51}\text{Fe}$ Levels

E(level)	J^π [†]	$T_{1/2}$	Comments
0	$5/2^-$	301 ms 4	$T_{1/2}$: from decay-time spectra fitted with exponential curves (2013Su07). Combining present and previous results, 2013Su07 recommend 303 ms 3.

[†] From Adopted Levels.