

$\text{Ni}({}^{58}\text{Ni},\text{X})$  [2007Do17](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen <sup>#</sup>		NDS 126, 1 (2015)	31-Mar-2015

[2007Do17](#): E=74.5 MeV/nucleon  ${}^{58}\text{Ni}^{26+}$  beam was produced at SISSE/LISE3 facility in GANIL. Target of natural Ni. Fragments were selected by the separator ALPHA-LISE3 and identified by energy loss, residual energy and time-of-flight measurements using two micro-channel plate (MCP) detectors and Si detectors. Double-sided silicon-strip detectors (DSSSD) and a thick Si(Li) detector were used to detect implanted events, charged particles and  $\beta$  particles. The  $\gamma$ -rays were detected by four Ge detectors. Coincidences measured between charged particles and  $\gamma$ -rays.

Total proton branching ratio is from time spectrum of events with energy >900 keV in the charged-particle spectrum. Possible small contributions from delayed- $\alpha$  and delayed-2p decays are ignored ([2007Do17](#)).

 ${}^{43}\text{V}$  Levels

E(level)	$T_{1/2}$ <sup>†</sup>	Comments
0	79.3 ms <sup>24</sup>	$T_{1/2}$ : earlier measured value was >800 ms by <a href="#">1992Bo37</a> . No delayed protons were detected. Thus ${}^{43}\text{V}$ decays almost 100% by $\beta^+ + \epsilon$ decay to ${}^{43}\text{Ti}$ ( <a href="#">2007Do17</a> ).

<sup>†</sup> From time correlation of implantation events due to  ${}^{43}\text{V}$  and subsequent emission of protons and  $\gamma$ -rays ([2007Do17](#)).