

$^{58}\text{Ni}(^{32}\text{S},2\text{np}\gamma)$  1991Ru06

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson and W. D. Kulp(a)		NDS 129, 1 (2015)	27-Jul-2015

Produced by  $^{58}\text{Ni}(^{32}\text{S},2\text{np})$  with  $E(^{32}\text{S})=110$  MeV and  $^{40}\text{Ca}(^{50}\text{Cr},2\text{np})$  with  $E(^{50}\text{Cr})=170$  MeV. Used array of 19 Compton-suppressed Ge detectors to measure  $\gamma\gamma$ -recoil-mass coincidences.

 $^{87}\text{Tc}$  Levels

E(level)	$J^\pi^\dagger$
0	(9/2 <sup>+</sup> )
712.0 10	(13/2 <sup>+</sup> )
1599.0 15	(17/2 <sup>+</sup> )

<sup>†</sup> From systematics of N=44 odd-Z nuclei, namely,  $^{81}\text{Rb}$ ,  $^{83}\text{Y}$ , and  $^{85}\text{Nb}$ .

 $\gamma(^{87}\text{Tc})$ 

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
<sup>x</sup> 431				
712	712.0	(13/2 <sup>+</sup> )	0	(9/2 <sup>+</sup> )
887	1599.0	(17/2 <sup>+</sup> )	712.0	(13/2 <sup>+</sup> )

<sup>x</sup>  $\gamma$  ray not placed in level scheme.

 $^{58}\text{Ni}(^{32}\text{S},2\text{np}\gamma)$  1991Ru06Level Scheme