^{58}Ni(^{52}Cr,3nγ)   **2004Ha59**

		History		
Type	Author	Citation		Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 109, 1383 (2008)		1-Mar-2008

E=187 MeV. Measured Eγ, Iγ, $\gamma\gamma$, γ(recoils)α coin using JUROGAM array of 43 EUROGAM type escape suppressed Ge detectors. The gamma rays were identified by the RITU gas-filled recoil separator and the GREAT focal plane spectrometer. This work contains the first identification of gamma rays in ^{107}Te.

^{107}Te Levels

E(level)	J^π	Comments
0.0	(5/2$^+$)	Main decay mode: α decay with %α=70 30.
90.3 4	(7/2$^+$)	Probable g$_{7/2}$ state.
721.0? 4	(9/2$^+$)	

γ(^{107}Te)

E$_\gamma$	I$_\gamma$	E$_i$(level)	J_i^π	E$_f$	J_f^π	E$_\gamma$	I$_\gamma$	E$_i$(level)	J_i^π	E$_f$	J_f^π
90.3 4	100 23	90.3	(7/2$^+$)	0.0	(5/2$^+$)	^{x}668.1 6	52 19				
^{x}482.7 7	19 14					^{x}676.4 4	90 23				
^{x}542.6 8	19 14					^{x}688.6 7	62 23				
^{x}556.2 8	19 14					^{x}693.9 9	38 19				
^{x}571.8 5	38 19					721.0† 4	90 23	721.0?	(9/2$^+$)	0.0	(5/2$^+$)
631.3† 5	71 23	721.0?	(9/2$^+$)	90.3	(7/2$^+$)						

† Placement of transition in the level scheme is uncertain.

^{x} γ ray not placed in level scheme.

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Legend

Level Scheme

Intensities: Relative I$_\gamma$

$\longrightarrow$ I$_\gamma <$ 2%$\times$I$_\gamma^{max}$
$\longrightarrow$ I$_\gamma <$ 10%$\times$I$_\gamma^{max}$
$\longrightarrow$ I$_\gamma >$ 10%$\times$I$_\gamma^{max}$
$- - - - - \blacktriangleright$ γ Decay (Uncertain)

(9/2$^+$)   721.0

721.0 90   631.3 71

90.3 100

(7/2$^+$)   90.3
(5/2$^+$)   0.0

$^{107}_{52}$Te$_{55}$