^{238}U(^{70}Zn,Xγ) 2008Va08

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Caroline D. Nesaraja, Scott D. Geraedts and Balraj Singh	NDS 111, 897 (2010)	12-Jan-2010

2008Va08: E=460 MeV beam provided by LNL Tandem-ALPI accelerator. Detected charged particles with PRISMA magnetic spectrometer. Measured Eγ, Iγ, $\gamma\gamma$-coin, (recoil)γ coin using CLARA array of 22 Clover Ge detectors with Compton-suppression. Gamma rays of 280, 377, 582 (doublet) and 1155 keV were seen in spectral figure 2 of 2008Va08. The level scheme is adopted from 2000Ap02. But the ordering of the $\gamma\gamma$ cascade is different in 2010St01, which has been adopted in the "Adopted Levels, gammas" dataset. The 728 level is omitted as a result of rearrangement of γ-ray cascades.

^{58}Mn Levels

E(level)	J$^{\pi}$[†]
71	4$^+$
448	(5$^+$)
728	
1883	(7)
2465	(8)
3048	(9)

[†] From 'Adopted Levels'.

γ(^{58}Mn)

E$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Comments
280	728		448	(5$^+$)	E$_\gamma$: γ placed from 1880 level in 2010St01.
377	448	(5$^+$)	71	4$^+$	
582[†]	2465	(8)	1883	(7)	
582[†]	3048	(9)	2465	(8)	
1155	1883	(7)	728		E$_\gamma$: γ placed from 1601 level in 2010St01.

[†] Multiply placed.

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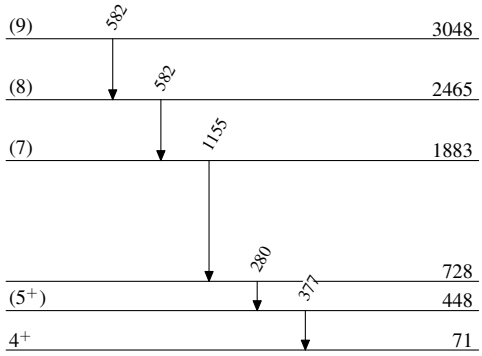
Level Scheme



$^{58}_{25}Mn_{33}$