^{235}U(n,Fγ) 2012Mu08

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 187,1 (2023)	12-Oct-2022

2012Mu08: E=thermal neutrons from the Canada India Research Utility Services (CIRUS) reactor facility, Bhabha Atomic Research Center (BARC), Mumbai. Target≈5.1 gm/cm^3 UAl_3 (17% enriched ^{235}U). Gamma rays were detected by two clover HPGe detectors equipped with anti-Compton shields, in coincidence mode. Measured Eγ, Iγ, $\gamma\gamma$-coin. Deduced levels, J, π, isotopic yield, angular momentum distribution.

^{141}Ba Levels

E(level)	J$^\pi$[†]	Comments
0.0	3/2$^-$	
48	5/2$^-$	
55[‡]	7/2$^-$	
644[‡]	11/2$^-$	
1189	13/2$^-$	
1302[‡]	15/2$^-$	
2116[‡]	19/2$^-$	
2950[‡]	(23/2$^-$)	J$^\pi$: from 2002Lu08.

[†] From 2002Ur04, unless noted otherwise. Except for the g.s. value all the other assignments are tentative in the Adopted Levels, Gammas dataset.
[‡] Band(A): simplex s=+i, α=−1/2, g.s. band.

γ(^{141}Ba)

E$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
545	1189	13/2$^-$	644	11/2$^-$
589	644	11/2$^-$	55	7/2$^-$
658	1302	15/2$^-$	644	11/2$^-$
814	2116	19/2$^-$	1302	15/2$^-$
834	2950	(23/2$^-$)	2116	19/2$^-$

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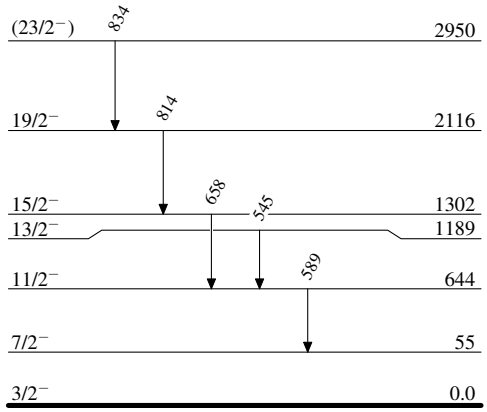
Level Scheme



$^{141}_{56}Ba_{85}$

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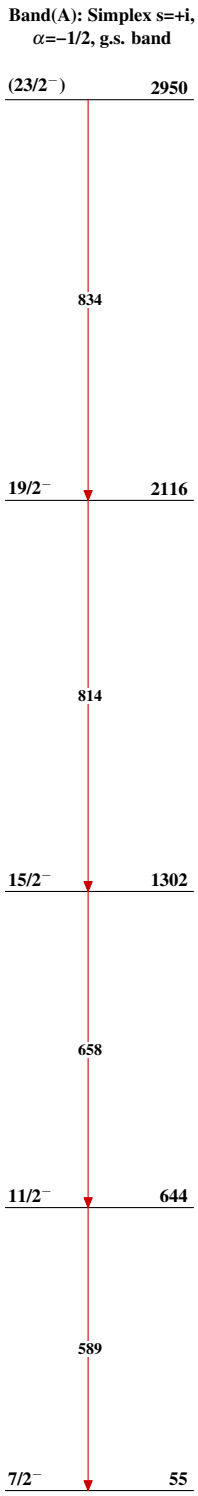

$^{141}_{56}Ba_{85}$