^{9}Be(^{238}U,Fγ) 2014Si18

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 152, 331 (2018)	1-Apr-2018

E(^{238}U)=345 MeV/nucleon. Fragments separated with the BigRIPS in-flight separator and identified using the ΔE-ToF-Bρ method. The selected fragments of ^{136}Sn were transported through ZeroDegree magnetic spectrometer and implanted in the WAS3ABi detector array consisting of eight double-sided silicon strip detectors for β and ion detection. Measured delayed Eγ, Iγ, γ(t), fragment-γ and $\gamma\gamma$-coincidences using 12 large volume Ge Cluster detectors from the EUROBALL spectrometer. Subset of results given in 2014JuZZ.

^{136}Sn Levels

E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$	Comments
0	0$^+$		
688 *1*	(2$^+$)		
1079 *2*	(4$^+$)		
1295 *2*	(6$^+$)	46 ns *7*	configuration=$\nu f^2_{7/2}$ (2014Si18). T$_{1/2}$: from implant-γ(t), summing γ(t) for 688γ, 391γ and 216γ (2014Si18).

[†] From Eγ.
[‡] From shell-model predictions and systematics of even-even semi-magic nuclei (2014Si18).

γ(^{136}Sn)

E$_\gamma$	I$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
216 *1*	95 *29*	1295	(6$^+$)	1079	(4$^+$)
391 *1*	111 *20*	1079	(4$^+$)	688	(2$^+$)
688 *1*	100 *19*	688	(2$^+$)	0	0$^+$

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Level Scheme

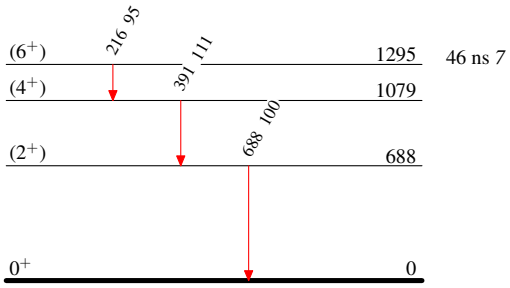
Intensities: Type not specified

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$



$^{136}_{50}Sn_{86}$