

$^{238}\text{U}(\text{p,F})\text{:prompt } \gamma$  2013DrZY

Type	History		
	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	31-Jan-2016

2013DrZY: E(p)=25 MeV from accelerator at University of Jyvaskyla. Measured prompt  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin using JUROGAM-II array of 24 Clovers and 15 single-crystal Ge detectors. Target=74 mg/cm<sup>2</sup> thick  $^{238}\text{U}$ .

 $^{86}\text{Se}$  Levels

<u>E(level)<sup>†</sup></u>	<u>J<sup>π</sup><sup>‡</sup></u>	<u>E(level)<sup>†</sup></u>	<u>J<sup>π</sup><sup>‡</sup></u>	<u>E(level)<sup>†</sup></u>	<u>J<sup>π</sup><sup>‡</sup></u>	<u>E(level)<sup>†</sup></u>
0.0	0 <sup>+</sup>	2073.4	4 <sup>+</sup>	3062.8	(5 <sup>-</sup> )	4098.0
704.1	2 <sup>+</sup>	2846.4		3301.3		5104.0
1567.9	4 <sup>+</sup>	3032.9	(4 <sup>+</sup> ,5 <sup>+</sup> ,6 <sup>+</sup> )	4090.0		

<sup>†</sup> From  $E\gamma$  data.

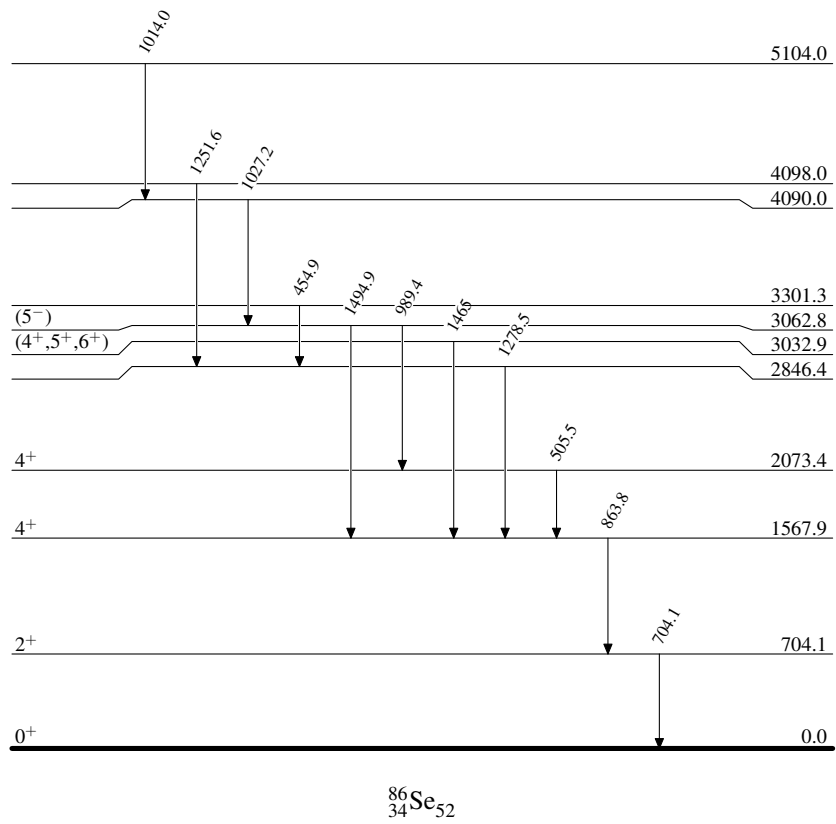
<sup>‡</sup> As listed in 2013DrZY.

 $\gamma(^{86}\text{Se})$ 

<u>E<sub>γ</sub></u>	<u>E<sub>i</sub>(level)</u>	<u>J<sub>i</sub><sup>π</sup></u>	<u>E<sub>f</sub></u>	<u>J<sub>f</sub><sup>π</sup></u>	<u>E<sub>γ</sub></u>	<u>E<sub>i</sub>(level)</u>	<u>J<sub>i</sub><sup>π</sup></u>	<u>E<sub>f</sub></u>	<u>J<sub>f</sub><sup>π</sup></u>
454.9	3301.3		2846.4		1027.2	4090.0		3062.8	(5 <sup>-</sup> )
505.5	2073.4	4 <sup>+</sup>	1567.9	4 <sup>+</sup>	1251.6	4098.0		2846.4	
704.1	704.1	2 <sup>+</sup>	0.0	0 <sup>+</sup>	1278.5	2846.4		1567.9	4 <sup>+</sup>
863.8	1567.9	4 <sup>+</sup>	704.1	2 <sup>+</sup>	1465	3032.9	(4 <sup>+</sup> ,5 <sup>+</sup> ,6 <sup>+</sup> )	1567.9	4 <sup>+</sup>
989.4	3062.8	(5 <sup>-</sup> )	2073.4	4 <sup>+</sup>	1494.9	3062.8	(5 <sup>-</sup> )	1567.9	4 <sup>+</sup>
1014.0	5104.0		4090.0						

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## Level Scheme

 $^{86}_{34}\text{Se}_{52}$