

**(HI,xn $\gamma$ ) 1987Wu03,1991He19**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 108, 681 (2007)	1-Jun-2006

$^{235}\text{U} (^{58}\text{Ni}, ^{59}\text{Ni } \gamma)$  E=325 MeV: [1987Wu03](#), [1991He19](#).

$^{235}\text{U} (^{206}\text{Pb}, ^{207}\text{Pb } \gamma)$  E=1394 MeV: [1991He19](#).

Triple-coincidence data are reported in [1987Wu03](#) and [1991He19](#).  $\gamma$  rays were detected in coincidence with scattered particles and recoiling  $^{235}\text{U}$  nuclei using 14 germanium detectors located at various angles. The spectra were corrected for Doppler shift.

 $^{234}\text{U}$  Levels

E(level) <sup>†</sup>	J $\pi$ <sup>†</sup>	E(level) <sup>†</sup>	J $\pi$ <sup>†</sup>	E(level) <sup>†</sup>	J $\pi$ <sup>†</sup>	E(level) <sup>†</sup>	J $\pi$ <sup>†</sup>
0.0	0 <sup>+</sup>	497.04 4	8 <sup>+</sup>	1687.8 12	16 <sup>+</sup>	3339 2	24 <sup>+</sup>
43.498 1	2 <sup>+</sup>	741.2	10 <sup>+</sup>	2063.0 13	18 <sup>+</sup>	3808 2	26 <sup>+</sup>
143.351 4	4 <sup>+</sup>	1023.8 8	12 <sup>+</sup>	2464.2 14	20 <sup>+</sup>	4297 3	28 <sup>+</sup>
296.071 4	6 <sup>+</sup>	1340.8 10	14 <sup>+</sup>	2889.7 15	22 <sup>+</sup>	4807?	(30 <sup>+</sup> )

<sup>†</sup> Adopted values.

 $\gamma(^{234}\text{U})$ 

E $\gamma$ <sup>†</sup>	E <sub>i</sub> (level)	J $\pi$ <sub>i</sub>	E <sub>f</sub>	J $\pi$ <sub>f</sub>	E $\gamma$ <sup>†</sup>	E <sub>i</sub> (level)	J $\pi$ <sub>i</sub>	E <sub>f</sub>	J $\pi$ <sub>f</sub>
43.498 <sup>‡</sup> 1	43.498	2 <sup>+</sup>	0.0	0 <sup>+</sup>	375.0 <sup>‡</sup> 5	2063.0	18 <sup>+</sup>	1687.8	16 <sup>+</sup>
99.853 <sup>‡</sup> 3	143.351	4 <sup>+</sup>	43.498	2 <sup>+</sup>	401.2 <sup>‡</sup> 5	2464.2	20 <sup>+</sup>	2063.0	18 <sup>+</sup>
152.720 <sup>‡</sup> 2	296.071	6 <sup>+</sup>	143.351	4 <sup>+</sup>	425.5	2889.7	22 <sup>+</sup>	2464.2	20 <sup>+</sup>
201.0	497.04	8 <sup>+</sup>	296.071	6 <sup>+</sup>	449	3339	24 <sup>+</sup>	2889.7	22 <sup>+</sup>
244.2	741.2	10 <sup>+</sup>	497.04	8 <sup>+</sup>	469	3808	26 <sup>+</sup>	3339	24 <sup>+</sup>
282.8	1023.8	12 <sup>+</sup>	741.2	10 <sup>+</sup>	489	4297	28 <sup>+</sup>	3808	26 <sup>+</sup>
316.8	1340.8	14 <sup>+</sup>	1023.8	12 <sup>+</sup>	510 <sup>#</sup>	4807?	(30 <sup>+</sup> )	4297	28 <sup>+</sup>
347.3 <sup>‡</sup>	1687.8	16 <sup>+</sup>	1340.8	14 <sup>+</sup>					

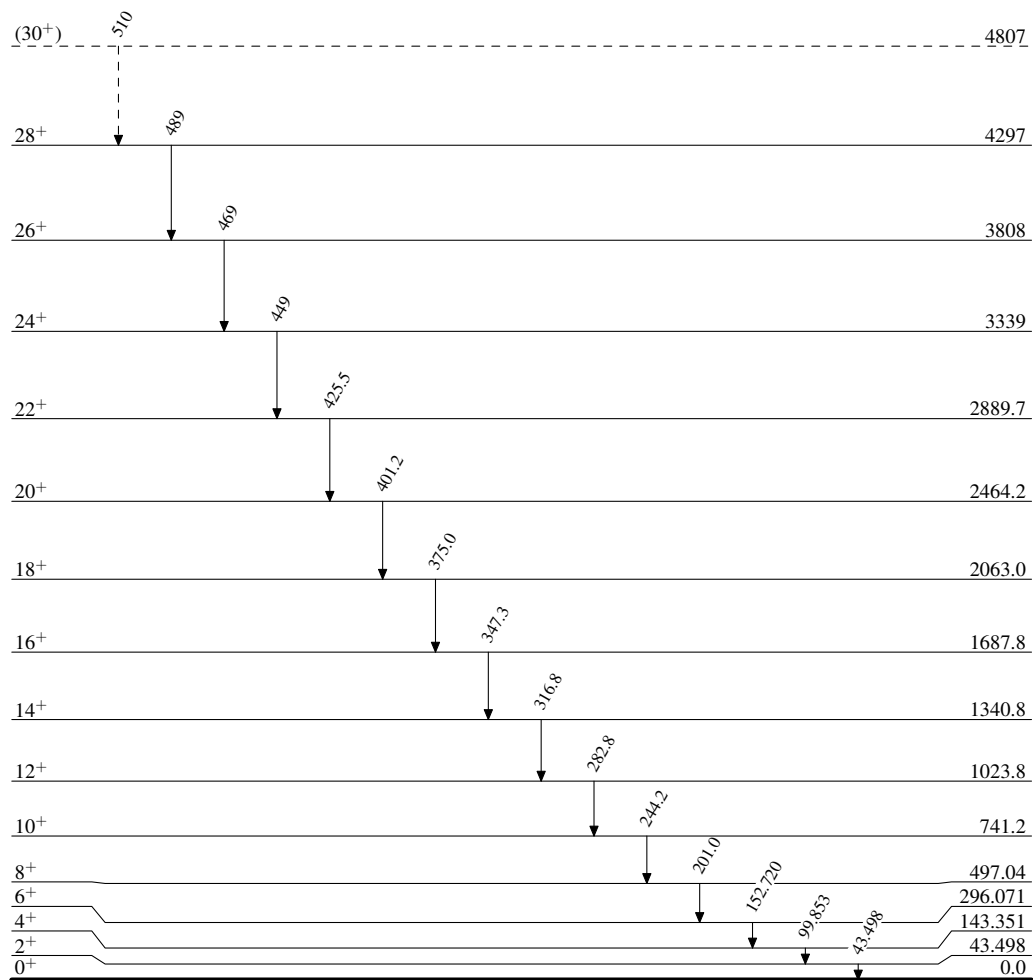
<sup>†</sup>  $\gamma$ -ray peaks in [1987Wu03](#) and [1991He19](#) are identified by the spins of the levels that they connect. E $\gamma$  for energies <200 keV are from Adopted Gammas; E $\gamma$  for energies >200 keV are (except where noted) from K. G. Helmer, an author in [1991He19](#).

<sup>‡</sup> From "Adopted Gammas".

<sup>#</sup> Placement of transition in the level scheme is uncertain.

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Legend

Level Scheme----->  $\gamma$  Decay (Uncertain) $^{234}_{92}\text{U}_{142}$