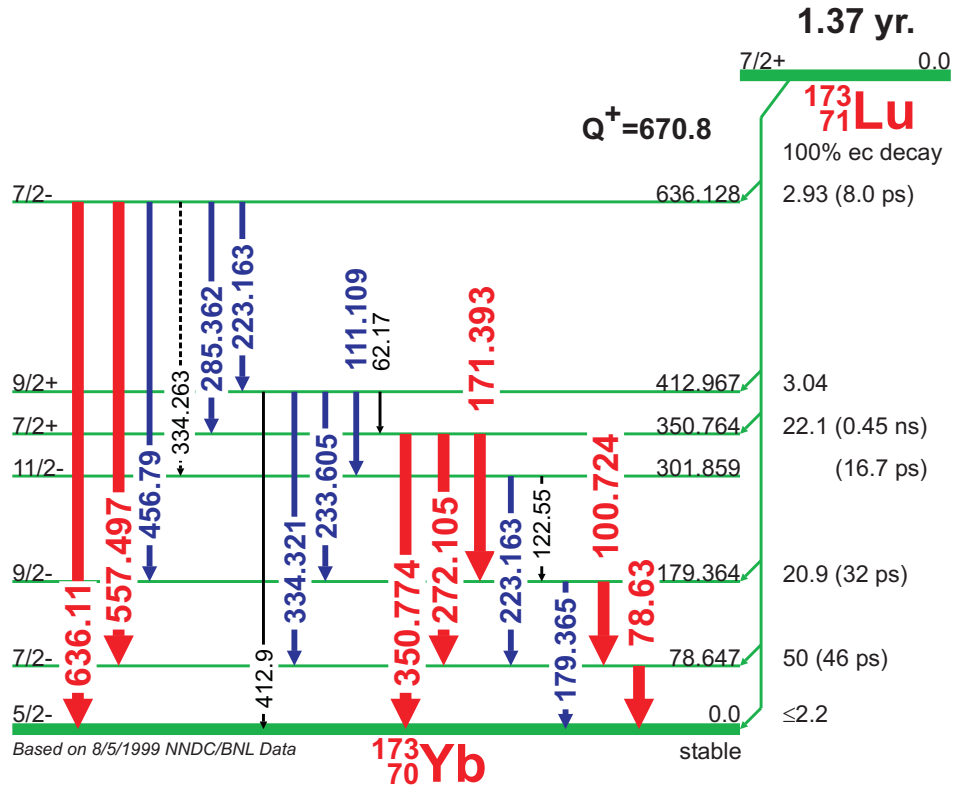


# <sup>173</sup>Lu (1.3 yr.) Decay Scheme



## GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: <sup>173</sup>Lu

Half Life: 1.37(1) yr.

E <sub>γ</sub> (keV)	σ E <sub>γ</sub>	① I <sub>γ</sub>	② σ I <sub>γ</sub>	Level	
62.17	0.03	0.167	0.008	412.967	ec
<b>78.63</b>	<b>0.03</b>	<b>11.87</b>	<b>0.17</b>	<b>78.647</b>	<b>ec</b>
<b>100.724</b>	<b>0.020</b>	<b>5.24</b>	<b>0.08</b>	<b>179.364</b>	<b>ec</b>
111.109	0.012	0.053 4	0.002 1	412.967	ec
122.55	0.03	0.016 7	0.000 6	301.859	ec
<b>171.393</b>	<b>0.013</b>	<b>2.90</b>	<b>0.11</b>	<b>350.764</b>	<b>ec</b>
179.365	0.011	1.376	0.025	179.364	ec
208.78		0.000 6	≤		ec
223.163	0.020	0.140	0.006	636.128	ec
223.163	0.020	0.0127	0.002 5	301.859	ec
233.605	0.012	0.553	0.011	412.967	ec
<b>272.105</b>	<b>0.015</b>	<b>21.20</b>	<b>0.32</b>	<b>350.764</b>	<b>ec</b>
285.362	0.006	0.611	0.017	636.128	ec
319.4		0.000 53	≤		ec
334.263	0.015	0.005 5	<	636.128	ec
334.321	0.011	0.109	0.004	412.967	ec
<b>350.774</b>	<b>0.018</b>	<b>0.301</b>	<b>0.011</b>	<b>350.764</b>	<b>ec</b>
412.9		0.000 17	<	412.967	ec
442.08		0.000 4	≤		ec
456.79	0.03	0.141	0.005	636.128	ec
543.24		0.000 6	≤		ec
<b>557.497</b>	<b>0.025</b>	<b>0.519</b>	<b>0.019</b>	<b>636.128</b>	<b>ec</b>
621.80		0.000 17	≤		ec
<b>636.11</b>	<b>0.03</b>	<b>1.45</b>	<b>0.05</b>	<b>636.128</b>	<b>ec</b>

E<sub>γ</sub>, σE<sub>γ</sub>, I<sub>γ</sub>, σI<sub>γ</sub> Levels from ENSDF Database as of March 29, 2001

① These I<sub>γ</sub> are per 100 Decays of <sup>173</sup>Lu.

② For total uncertainty add 3.30% systematic component in quadrature, based on the normalization factor 0.212(7)

