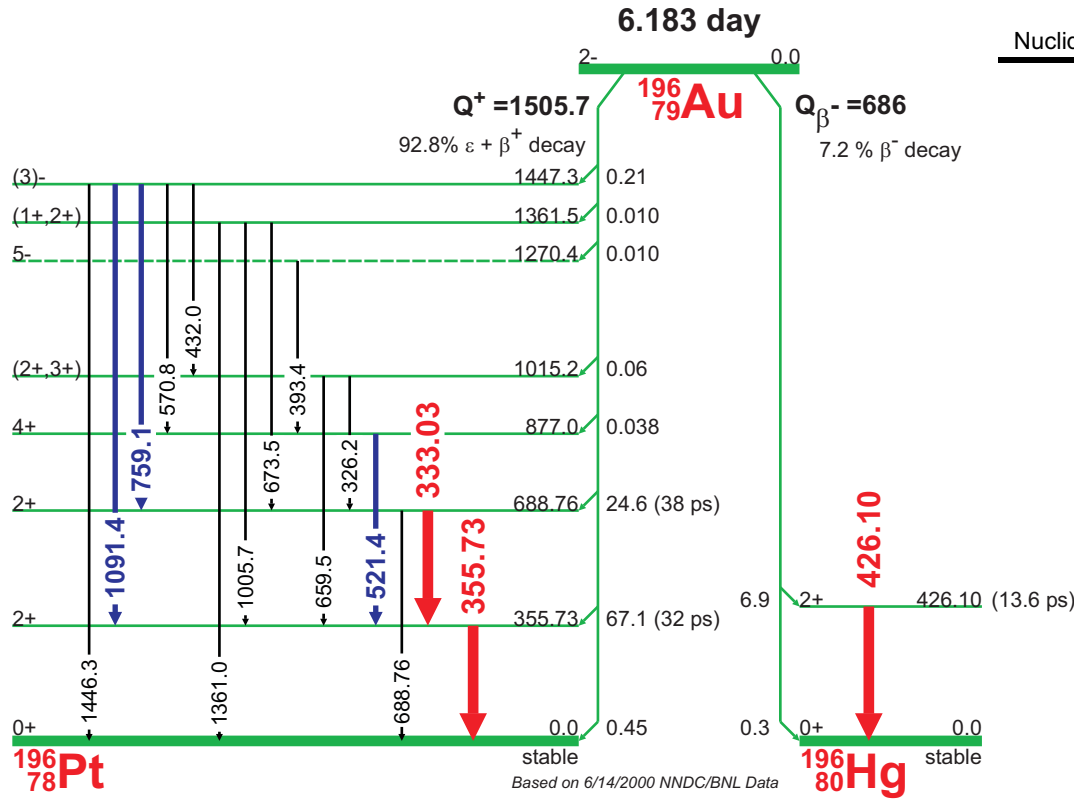


# <sup>196</sup>Au (6.183 day) Decay Scheme



## GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: **<sup>196</sup>Au**

Half Life: 6.183(10) day

| $E_{\gamma}$ (keV) | $\sigma E_{\gamma}$ | $I_{\gamma}$ | $\sigma I_{\gamma}$ | Level          |                              |
|--------------------|---------------------|--------------|---------------------|----------------|------------------------------|
| 326.2              | 0.4                 | 0.050        | 0.011               | 1,015.2        | $\epsilon$                   |
| <b>333.03</b>      | <b>0.05</b>         | <b>22.9</b>  | <b>0.5</b>          | <b>688.76</b>  | <b><math>\epsilon</math></b> |
| <b>355.73</b>      | <b>0.05</b>         | <b>87.0</b>  |                     | <b>355.73</b>  | <b><math>\epsilon</math></b> |
| 393.4              | 0.4                 | 0.010 1      | 0.000 5             | 1,270.4        | $\epsilon$                   |
| <b>426.10</b>      | <b>0.08</b>         | <b>6.60</b>  |                     | <b>426.10</b>  | <b><math>\beta^-</math></b>  |
| 432.0              | 0.3                 | 0.006 7      | 0.000 6             | 1,447.3        | $\epsilon$                   |
| <b>521.4</b>       | <b>0.2</b>          | <b>0.389</b> | <b>0.009</b>        | <b>877.0</b>   | <b><math>\epsilon</math></b> |
| 570.8              | 0.4                 | 0.006 9      | 0.000 5             | 1,447.3        | $\epsilon$                   |
| 659.5              | 0.3                 | 0.003 6      | 0.000 3             | 1,015.2        | $\epsilon$                   |
| 673.5              | 0.7                 | 0.002 7      | 0.000 3             | 1,361.5        | $\epsilon$                   |
| 688.76             |                     | 0.006        | 0.002               | 688.76         | $\epsilon$                   |
| <b>759.1</b>       | <b>0.3</b>          | <b>0.044</b> | <b>0.002</b>        | <b>1,447.3</b> | <b><math>\epsilon</math></b> |
| 1,005.7            | 0.3                 | 0.002 7      | 0.000 3             | 1,361.5        | $\epsilon$                   |
| <b>1,091.4</b>     | <b>0.2</b>          | <b>0.149</b> | <b>0.006</b>        | <b>1,447.3</b> | <b><math>\epsilon</math></b> |
| 1,361.0            | 1.0                 | 0.000 4      | 0.000 2             | 1,361.5        | $\epsilon$                   |
| 1,446.3            | 0.7                 | 0.000 8      | 0.000 2             | 1,447.3        | $\epsilon$                   |

$E_{\gamma}$ ,  $\sigma E_{\gamma}$ ,  $I_{\gamma}$ ,  $\sigma I_{\gamma}$  Levels from ENSDF Database as of June 14, 2000

① These  $I_{\gamma}$  are per 100 Decays of <sup>196</sup>Au.

② For  $\beta^-$  decay total uncertainty add 12% systematic component in quadrature, based on the normalization factor 0.066(8)

② For  $\epsilon$  decay total uncertainty add 0.92% systematic component in quadrature, based on the normalization factor 0.870(8)

