Adopted Levels

Type Author Citation Literature Cutoff Date
Full Evaluation Balraj Singh ENSDF 15-Aug-2010

 $Q(\beta^{-})=1.06\times10^{4} \text{ syst}; S(n)=3.7\times10^{3} \text{ syst}$ 2012Wa38

Note: Current evaluation has used the following Q record \$ 10200 calc 4250 calc 12330 calc -4730 calc 1997Mo25. S(2n)=6930, S(2p)=28260 (1997Mo25, calculated).

2010Oh02: ¹⁴⁵I nuclide identified in Be(²³⁸U,F) and Pb(²³⁸U,F) reactions with a ²³⁸U⁸⁶⁺ beam energy of 345 MeV/nucleon produced by the cascade operation of the RBIF accelerator complex of the linear accelerator RILAC and four cyclotrons RRC, fRC, IRC and SRC. Identification of ¹⁴⁵I nuclei was made on the basis of magnetic rigidity, time-of-flight and energy loss of the fragments using BigRIPS fragment separator. Experiments performed at RIKEN facility.

Based on A/Q spectrum and Z versus A/Q plot, 57 counts were assigned to ¹⁴⁵I isotope. (Q=charge state).

¹⁴⁵I Levels

E(level) $T_{1/2}$ Comments $\frac{E(\text{level})}{0} = \frac{T_{1/2}}{\sqrt{307}} = \frac{7}{\sqrt{307}} = \frac{7}{\sqrt{$