## **Adopted Levels**

Type Author Citation Literature Cutoff Date
Full Evaluation C. Morse NDS 182, 167 (2022) 14-Sep-2021

S(n)=5919 SY; S(p)=2948 SY; Q( $\alpha$ )=1.056×10<sup>4</sup> 7 2021Wa16  $\Delta$ S(n)=770,  $\Delta$ S(p)=669 (2021WA16).

 $S(2p)=4983 \text{ SY } 736, \ Q(\varepsilon p)=1228 \text{ SY } 863 \ (2021WA16).$ 

<sup>285</sup>Fl has been observed in the <sup>242</sup>Pu(<sup>48</sup>Ca,5n) reaction at LBNL (2010EL06) and the <sup>240</sup>Pu(<sup>48</sup>Ca,3n) reaction at JINR (2015UT02,2018UT02). Events were identified based on the observation of chains of α-decaying nuclei terminated by spontaneous fission. The observed decay properties were compared to those in the literature in order to assign decays to specific nuclei. Half-lives, branching ratios, and α-decay energies in this evaluation have been computed from the individual events listed in the references above. Half-life uncertainties have been computed according to the method of 1984SC13. An additional 10 keV systematic uncertainty is assumed for the α-decay energies, which is added in quadrature to the averaged statistical uncertainty.

## <sup>285</sup>Fl Levels

E(level)  $T_{1/2}$  Comments 0 101 ms +59-27  $\%\alpha=100; \%\text{SF} \le 12.5$ 

% $\alpha$ =100; %SF≤12.5 E(level): Assumed ground state. T<sub>1/2</sub>: From seven events.