## **Adopted Levels**

Type Author Citation Literature Cutoff Date
Full Evaluation E. A. Mccutchan NDS 152, 331 (2018) 1-Apr-2018

 $Q(\beta^{-})=-12960 \text{ SY}; S(n)=12770 \text{ SY}; S(p)=2230 \text{ SY}; Q(\alpha)=3570 \text{ SY}$  2017Wa10

 $\Delta Q(\beta^{-})=580$ ;  $\Delta S(n)=500$ ;  $\Delta S(p)=360$ ;  $\Delta Q(\alpha)=420$  (2017Wa10).

S(2n)=23930 syst 500; S(2p)=2290 syst 360;  $Q(\varepsilon p)=6480$  syst 340 (2017Wa10).

2000So11: Produced via  $^{90}$ Zr( $^{197}$ Au,X), with E( $^{197}$ Au)=30 MeV/nucleon. Fragments separated with the A1200 fragment separator and identified using time-of-flight,  $\Delta$ E/dx, E and magnetic rigidity measurements at the focal plane of the spectrometer. Production cross section determined to be 140  $\mu$ b.

## 136Gd Levels

E(level)  $J^{\pi}$   $T_{1/2}$  Comments

 $T_{1/2}$ : lower limit from assumption that  $T_{1/2}$  has to be of the same order or larger than the time of flight through the A1200 separator, which for this experiment was  $\approx$ 200 ns. E(level), $J^{\pi}$ : assuming that the observed events correspond to the ground state.