Adopted Levels

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Janos Timar and Zoltan Elekes, Balraj Singh	NDS 121, 143 (2014)	31-May-2014

S(n)=11480 *SY*; S(p)=1640 *SY*; Q(α)=3030 *SY* 2012Wa38
Estimated (2012Wa38) uncertainties: 710 for S(n), 590 for S(p), 640 for Q(α) (2012Wa38).
S(2p)=1180 *590*, Q(εp)=10880 *540* (syst,2012Wa38). S(2n)=25290 (1997Mo25,theory).
1999Xu05 (also 2005Xu04): ^{129}Sm produced in ^{96}Ru(^{36}Ar,3n) reaction at E(^{36}Ar)=165 MeV at NLHIAL, China. Helium-jet transport system. Measured pγ coin, half-life using silicon and HPGe detectors. Statistical model calculations.
Additional information 1.

^{129}Sm Levels

Cross Reference (XREF) Flags

A ^{130}Eu p decay (0.90 ms)

E(level)	J$^{\pi}$	T$_{1/2}$	XREF	Comments
0	(1/2$^+$,3/2$^+$)	0.55 s *10*	A	%ε+%β^+=100; %εp>0 E(level): it is assumed that the observed events corresponds to the g.s. J$^{\pi}$: from fitting of experimental delayed-proton spectrum with statistical-model calculations (1999Xu05). 1/2$^+$ proposed in theoretical calculations (1997Mo25). T$_{1/2}$: from timing of 134γ in ^{128}Nd (1999Xu05,2005Xu04). Average proton energy of a wide peak=3.7 MeV. Measured production cross section ≈ 70 nb.