Adopted Levels

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Alexandru Negret, Balraj Singh	NDS 114, 841 (2013)	30-Jun-2013

S(n)=13860 *SY*; S(p)=1.99×10^3 *22*; Q(α)=−2.72×10^3 *25*   2012Wa38

Estimated uncertainty=240 for S(n).

Q(εp)=8420 *220*, S(2n)=30810 *460* (syst), S(2p)=4640 *220* (2012Wa38).

1991Mo10, 1995Bl23: ^{75}Sr identified by analyzing fragments by a fragment separator from reaction ^{58}Ni(^{78}Kr,X) E=73 MeV/nucleon. 1995Bl23 measured T$_{1/2}$ and %εp.

2003Hu01: ^{75}Sr produced by spallation of a proton beam (1 and 1.4 GeV) at the ISOLDE facility (CERN). ^{75}Sr was implanted in a moving tape. Plastic scintillators, HPGe detectors and Si detectors were used to detect β, γ and protons. Measured E, t, %εp, and %ε to the first excited state in ^{75}Rb. Deduced Gamow-Teller strength.

Theoretical calculations: 1996Po13 (mass excess), 1999Ha28 (B(GT)).

^{75}Sr Levels

E(level)	J$^\pi$	T$_{1/2}$	Comments
0.0	(3/2$^-$)	88 ms *3*	%ε+%β^+=100; %εp=5.2 *9* (2003Hu01) %εp: other: 6.5 *33* (1995Bl23). T$_{1/2}$: from decay curves of $\beta\gamma$ and pγ spectra (2003Hu01), weighted average of 87 ms *3* and 89 ms *5*. Others: 80 ms *+400−40* (2001Ki13,2002Fa13,2007WeZX), 71 ms *+71−24* (1995Bl23). J$^\pi$: from mirror analogy between T=1/2 ground states of ^{75}Sr and ^{75}Rb, the latter assigned (3/2$^-$) in high-spin measurements. See also review article by 2008Se10 about Ft values of the T=1/2 mirror β transitions.