^{103}Sn εp decay:7.0 s 2005Ka34

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	D. De Frenne	NDS 110, 1745 (2009)	31-Dec-2008

Parent: ^{103}Sn: E=0; $J^\pi=(5/2^+)$; $T_{1/2}$=7.0 s *2*; Q(εp)=5420 *SY*; %εp decay=1.2 *1*

^{103}Sn-Q(εp): 5420 *300* (syst,2003Au03).

^{103}Sn isotope produced in ^{50}Cr(^{58}Ni),αn) reaction at E=5 MeV/nucleon Ion-beam facility at GSI, recoil mass separator. Measured Eγ, Iγ, γγ, βγ, βγγ using an array of three silicon detectors, 17 Ge crystals. Total absorption β spectrum, delayed proton decay.

^{102}Cd Levels

E(level)	J^π
0.0	0^+
777	2^+

γ(^{102}Cd)

Iγ normalization: from 2005Ka34. %εp=1.2 *1* (2005Ka34).

E_γ	E_i(level)	J_i^π	E_f	J_f^π
777	777	2^+	0.0	0^+

Delayed Protons (^{102}Cd)

E(^{102}Cd)	I(p)†	Comments
0.0	66 *2*	I(p): %εp=46% *2*, %β^+p=20 *1*.
777	33 *2*	I(p): %εp=32% *2*, %β^+p≤2.

† For absolute intensity per 100 decays, multiply by 0.012 *1*.

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Decay Scheme