Adopted Levels

TypeAuthorCitationLiterature Cutoff DateFull EvaluationWang Jimin and Huang XiaolongNDS 144, 1 (2017)1-Mar-2016

S(n)= 1.585×10^4 SY; S(p)= 1.56×10^3 SY; Q(α)= -7.46×10^3 SY **2017Wa10** Estimated uncertainties (2017Wa10): Δ S(n)=710, Δ S(p)=640, Δ Q(α)=710.

⁵¹Ni Levels

Cross Reference (XREF) Flags

A $Ni(^{58}Ni,X)$

E(level)	\mathbf{J}^{π}	T _{1/2}	XREF	Comments
0	(7/2 ⁻)	23.8 ms 2	A	 %ε+%β⁺=100; %εp=87.2 8 (2007Do17); %ε2p=0.5 2 (2012Au08) %εp: Total proton branching ratio is from time spectrum of events with energy >900 keV in the charged-particle spectrum. Possible small contributions from delayed-α and delayed-2p decays are ignored. %ε2p: With the total β⁺p=87.2% 8 measured by 2007Do17, the β⁺2p/β⁺1p ratio is less than 5% in agreement with calculation by 1991De26. T_{1/2}: By time correlation of implantation events due to ⁵¹Ni and subsequent emission of protons and γ rays (2007Do17). Other: >200 ns (TOF, 1987Po04). J^π: 7/2⁻ from systematics in 2017Au03. Theoretical calculations in 1997Mo25 suggest 3/2⁻.