^{141}Dy εp decay:0.9 s 2006Xu03

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 154, 1 (2018)	20-Nov-2018

Parent: ^{141}Dy: E=0.0; $J^\pi=9/2^-$; $T_{1/2}$=0.9 s *2*; Q(εp)=911×10[1] *30*; %εp decay=?

^{141}Dy-$T_{1/2}$: from 2006Xu03 and ^{141}Dy Adopted Levels dataset.

^{141}Dy-Q(εp): 9110 *300* (syst,2017Wa10).

^{141}Dy-J^π: from 2006Xu03 based on comparison of calculated proton branches with measured values. $9/2^+$ is also possible, but possible configuration=ν9/2[514] is assigned to this state.

Dataset based on unevaluated XUNDL files compiled from 2006Xu03 by M. Mitchell and B. Singh (McMaster).

^{141}Dy produced from fusion evaporation reaction: ^{106}Cd(^{40}Ca,αn) at E=232 MeV. Measured proton branches, isotopic half-life.

^{140}Gd Levels

E(level)	J^π[†]
0.0	0^+
329	2^+
836	4^+
1464	6^+

[†] Adopted values.

γ(^{140}Gd)

E_γ	E_i(level)	J_i^π	E_f	J_f^π
329	329	2^+	0.0	0^+
508	836	4^+	329	2^+
628	1464	6^+	836	4^+

Delayed Protons (^{140}Gd)

E(^{140}Gd)	I(p)[†]
329	50 *6*
836	39 *8*
1464	7 *4*

[†] Normalized to 50 for proton branch to 329 level.

^{141}Dy εp decay:0.9 s 2006Xu03

Decay Scheme