^{140}Ho p decay (6 ms) 1999Ry04

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	P. K. Joshi, B. Singh, S. Singh, A. K. Jain	NDS 138, 1 (2016)	15-Oct-2016

Parent: ^{140}Ho: E=0; J^π=(6$^-$,0$^-$,8$^+$); $T_{1/2}$=6 ms *3*; Q(p)=1094 *10*; %p decay=100.0

^{140}Ho-J^π,$T_{1/2}$: From ^{140}Ho Adopted Levels in the ENSDF database, Feb 2006 update; where J^π value is from 2001Fe05 based on coupling between a π7/2[523] orbital and ν5/2[402], ν7/2[404], ν9/2[514] orbitals. 2012Au07 proposed 8$^+$ from syst.

^{140}Ho-Q(p): From 2012Wa38, based on E(p)(lab)=1086 *10* (1999Ry04).

^{140}Ho-%p decay: assumed %p=100.

1999Ry04: ^{140}Ho produced and identified in ^{92}Mo(^{54}Fe,X) reaction at E=315 MeV, recoil-mass separator (RMS), position-sensitive avalanche counter PSAC for mass and charge identification, implants into double-sided silicon detectors (DSSD) at HRIBF facility. Measured E(p), I(p), half-life, (implant)(proton) coin. Coupled-channel calculations with deformed optical potential.

Additional information 1.

^{139}Dy Levels

E(level)	J^π	Comments
0	(7/2$^+$)	J^π: from Adopted Levels.

Protons (^{139}Dy)

E(p)	E(^{139}Dy)
1086 *10*	0