Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 113,715 (2012)	31-May-2011

Q(β^-)=−1.10×10^4 *syst*; S(n)=1.29×10^4 *syst*; S(p)=−8.×10^2 *syst*; Q(α)=3.7×10^3 *syst* 2012Wa38

Note: Current evaluation has used the following Q record −10796 SY12841 syst −551 syst 3546 syst 2011AuZZ. ΔQ=718, Δ(S(n))=643, Δ(S(p))=831, Δ(Q(α))=499 (syst,2011AuZZ) Q(εp)=7251 *807* (syst,2011AuZZ).

2003Au03: Q(β^-)=10040 syst, S(n)=12880 syst, S(p)=−390 syst, Q(α)=3460 syst. Dq=450, ΔS(n)=640, ΔS(p)=540, ΔQ(α)=500 (2003Au03).

^{143}Ho identified by 2000So11 in ^{90}Zr(^{197}Au,x) E=30 MeV/nucleon, followed by detection with a fragment separator. Measured cross section=230 μb. ^{143}Ho is expected to decay by delayed protons, although no proton decay was observed in an earlier study (1983La27), where the identification of ^{143}Ho was not well established.

2000Ol10: Produced by ^{92}Mo(^{54}Fe,p2n). Measured γ rays, $\gamma\gamma$ coin, pγ coin, Detector: gammasphere, array of HPGe detectors.

2003SeZW: Preliminary study using ^{92}Mo(^{54}Fe,p2n), measured γ in coin with p, n, a. Three γ's observed in p2n channel and considered to form decopled h11/2 proton band.

Theory: Shape calculations (2009Zh44).

^{143}Ho Levels

E(level)	J$^\pi$	Comments
0.0?	(11/2$^-$)	%ε+%β^+=?; %εp=? $T_{1/2}$: unknown experimentally, 0.3 s from systematics (2003Au02). J$^\pi$: 11/2$^-$ from systematics (2003SeZW).
318?	(15/2$^-$)	E(level),J$^\pi$: From 2003SeZW.

γ(^{143}Ho)

E$_i$(level)	J$_i^\pi$	E$_\gamma$	E$_f$	J$_f^\pi$	Comments
318?	(15/2$^-$)	318[†]	0.0?	(11/2$^-$)	E$_\gamma$: From 2003SeZW.

[†] Placement of transition in the level scheme is uncertain.

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Level Scheme