^{125}Ce εp decay 1986Wi15,1983Ni05

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. Katakura, Z. D. Wu	NDS 109, 1655 (2008)	1-Apr-2008

Parent: ^{125}Ce: E=0+x; $J^\pi=(5/2^+)$; $T_{1/2}=10.2$ s *4*; Q(εp)=5.14×10^3 *20*; %εp decay=?

1986Wi15: ^{92}Mo(^{36}Ar,2pn), E(^{36}Ar)=153 MeV; apparatus: SuperHILAC, on-line mass separator and proton telescope. ^{125}Ce εp decay half-life was determined. Proton spectra: E(p)=1.7-5.1 MeV, E(average)=3.3 MeV.

1983Ni05: ^{92}Mo(^{40}Ca,2pn), E(^{40}Ca)=196 MeV; apparatus: SuperHILAC, on-line mass separator and proton telescope. ^{125}Ce εp decay half-life was determined. Proton spectra: E(p)=2.0-4.7 MeV, E(average)=3.4 MeV.

1978Bo32: ^{96}Ru(^{32}S,2pn), ^{98}Ru(^{32}S,2p3n), E(^{32}S)=190 MeV; mass separated source; measured K-xray.

^{124}Ba Levels

E(level)	J^π †
0	0^+
230.0 *10*	2^+
651.0 *15*	4^+
1226.0 *18*	6^+

† From Adopted Levels.

γ(^{124}Ba)

E_γ †	E_i(level)	J_i^π	E_f	J_f^π
230	230.0	2^+	0	0^+
421	651.0	4^+	230.0	2^+
575	1226.0	6^+	651.0	4^+

† From 1986Wi15.

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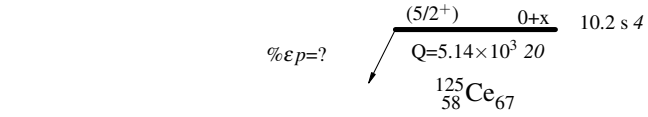
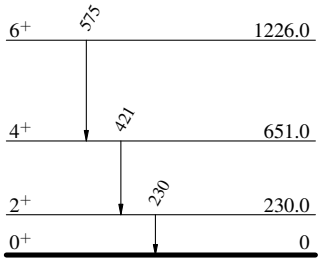
Decay Scheme





$^{124}_{56}Ba_{68}$