		History	
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 174, 1 (2021)	15-Apr-2021

Parent: ¹²³Ce: E=0.0; J^{π} =(5/2); $T_{1/2}$ =3.8 s 2; $Q(\varepsilon)$ =8370 SY; % ε +% β ⁺ decay=100.0

¹²³Ce-J^π: From Adopted Levels of ¹²³Ce; proposed by 1984Ni03 from a comparison of proton decay to 2⁺, 4⁺ and possibly 6⁺ rotational levels in ¹²²Ba with calculated branchings.

 123 Ce- $T_{1/2}$: from weighted average of 3.9 s 2 from delayed decay of protons and 3.3 s 6 from decay of La x-ray (1984Ni03); adopted in Adopted Levels in 123 Ce.

¹²³Ce-Q(ε): From 2021Wa16, Δ Q(ε)=360 (syst).

1988GeZR: 123 Ce source was produced via 92 Mo(36 Ar, α n γ) reaction with 36 Ar beam provided by the variable-energy cyclotron at SARA. Measured E γ , E(x ray), He-jet $\gamma\gamma$ -coin, (x ray) γ -coin.

1984Ni03: 123 Ce source was produced via 92 Mo(36 Ar, α n γ) reaction with E=196 MeV 36 Ar beam provided by the LBL SuperHILAC. Fragments were separated with the isotope separator OASIS. Measured E γ , E(x ray), γ (t), (x ray)-proton-coin, γ -proton-coin.

 $\gamma(^{123}\text{La})$

 E_{γ}^{\dagger} $^{x}66^{\ddagger}$ $^{x}113^{\ddagger}$ $^{x}178^{\ddagger}$

 † Weak γ rays observed and tentatively assigned to 123 La by 1988GeZR. Those γ rays are also seen in 124 Pr εp decay (1986Wi15).

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

 x γ ray not placed in level scheme.