

^{123}Ce ϵp decay [1984Ni03](#)

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	T. Tamura	NDS 108,455 (2007)	30-Sep-2006

Parent: ^{123}Ce : $E=0.0$; $J^\pi=(5/2)$; $T_{1/2}=3.8$ s 2; $Q(\epsilon\text{p})=7150$ syst; $\% \epsilon\text{p}$ decay=?

[1984Ni03](#): $^{92}\text{Mo}(^{36}\text{Ar},\alpha\text{n})^{123}\text{Ce}$; $E(^{36}\text{Ar})=196$ MeV, on-line isotope separation; measured beta-delayed proton spectra in coincidence with γ ray, K x ray, p, α particles; beta-delayed proton spectra $E(\text{p})=2.0$ - 5.8 MeV, proton branchings were not given by authors; determined $T_{1/2}(^{123}\text{Ce})=3.8$ s 2.

$Q(\epsilon\text{p})=7150$ syst ([2003Au03](#)).

 ^{122}Ba Levels

<u>E(level)[†]</u>	<u>J^π[†]</u>
0.0	0 ⁺
195.9	2 ⁺
568.5	(4 ⁺)
1081.6	(6 ⁺)

[†] From Adopted Levels.

 $\gamma(^{122}\text{Ba})$

From coincidence spectra.

<u>E_γ[†]</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>
195.9	195.9	2 ⁺	0.0	0 ⁺
372.7	568.5	(4 ⁺)	195.9	2 ⁺
513.0	1081.6	(6 ⁺)	568.5	(4 ⁺)

[†] From adopted gammas.

Delayed Protons (^{122}Ba)

<u>E(^{122}Ba)</u>
0.0
195.9
568.5
1081.6

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Decay Scheme

