^{121}Ce εp decay 1999Li46,1997Li19

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	K. Kitao, Y. Tendow and A. Hashizume	NDS 96, 241 (2002)	1-Dec-2001

Parent: ^{121}Ce: E=0.0; $J^\pi=5/2^+$; $T_{1/2}$=1.1 s *1*; Q(εp)=9128 *SY*; %εp decay≈1.0

1999Li46, 1997Li19: ^{121}Ce from ^{92}Mo(^{32}S,3n) E=171 MeV, 97.4% enriched target (2.05 mg/cm^2 thickness), Ge, Si; measured γ, K x ray, p, pγ coin.

Q(εp)=9128 syst (1995Au04).

^{120}Ba Levels

E(level)†	J^π	$T_{1/2}$
0.0	0^+	24 s *2*
186	2^+	
544	4^+	

† From Adopted Levels.

γ(^{120}Ba)

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Comments
185.8	186	2^+	0.0	0^+	E_γ: from 1997Li19.
358	544	4^+	186	2^+	E_γ: from 1999Li46.

Delayed Protons (^{120}Ba)

E(^{120}Ba)	I(p)†‡	Comments
0.0		I(p): not given by authors.
186	100	E(p): av energy of proton groups gated with 185.8γ is 3.7 MeV (1997Li19).
544	19 *9*	I(p): relative to I(p)(to 186L)=100.

† From pγ coin.

‡ For absolute intensity per 100 decays, multiply by ≈0.01.

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Decay Scheme