
 ^{125}Nd εp decay **1999Xu05,2005Xu04**

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

Parent: ^{125}Nd : $E=0$; $J^\pi=(5/2)$; $T_{1/2}=0.65$ s 15; $Q(\varepsilon\text{p})=9.92\times 10^3$ SY; % εp decay=?

^{125}Nd - $T_{1/2}$: From 2005Xu04.

^{125}Nd - $Q(\varepsilon\text{p})$: 9920 500 (2003Au03).

2005Xu04,1999Xu05: $^{36}\text{Ar} + ^{92}\text{Mo}$, $E(^{36}\text{Ar})=169$ MeV (2005Xu04) and 220 MeV (1999Xu05); 97 % enriched ^{92}Mo target;
He-jet tape transport system, py coin; measured E_γ , x-ray.

 ^{124}Ce Levels

<u>E(level)</u>	<u>J^π[†]</u>
0	0 ⁺
142	2 ⁺
448	4 ⁺

[†] From Adopted Levels.

 $\gamma(^{124}\text{Ce})$

<u>E_γ</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>
142	142	2 ⁺	0	0 ⁺
306	448	4 ⁺	142	2 ⁺

^{125}Nd ϵp decay 1999Xu05,2005Xu04Decay Scheme