

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 93,33 (2001)	11-May-2001

$Q(\beta^-) = -7.9 \times 10^3$ syst; $S(n) = 1.06 \times 10^4$ syst; $S(p) = 4. \times 10^2$ syst; $Q(\alpha) = 2.5 \times 10^3$ syst 2012Wa38

Note: Current evaluation has used the following Q record -7620 syst 10596 syst 586 syst 2363 syst 1995Au04.

$\Delta(Q(\beta^-)) = 1142$, $\Delta(S(n)) = 1063$, $\Delta(S(p)) = 785$, $\Delta(Q(\alpha)) = 861$ (1995Au04).

$Q(\varepsilon p) = 7233$ 760 (syst, 1995Au04).

^{130}Pm produced by 1985Wi07 in $^{92}\text{Mo}(^{40}\text{Ca}, \text{pn})$ at $E = 170$ MeV, followed by mass separation and measurement of the Nd x-rays in coincidence with delayed protons. 1999Xi03 produced ^{130}Pm in $^{96}\text{Ru}(^{36}\text{Ar}, X)$ at $E = 220$ MeV, followed by He-jet recoil tape-transport system.

 ^{130}Pm Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	(4,5,6)	2.6 s 2	$\% \varepsilon + \% \beta^+ = 100$; $\% \varepsilon p = ?$ J^π : possible β^+ feeding of 4^+ and/or 6^+ states and no β^+ feeding of 2^+ state in ^{130}Nd . $T_{1/2}$: from 1999Xi03. Other: 2.2 s +6-4 (1985Wi07). Delayed proton emitter.