

<sup>140</sup>Nd ε decay 1972Ba91,1973HaWA

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 154, 1 (2018)	20-Nov-2018

Parent: <sup>140</sup>Nd: E=0.0; J<sup>π</sup>=0<sup>+</sup>; T<sub>1/2</sub>=3.37 d 2; Q(ε)=429 7; %ε decay=100.0

<sup>140</sup>Nd-E,J<sup>π</sup>,T<sub>1/2</sub>: from <sup>140</sup>Nd Adopted Levels.

<sup>140</sup>Nd-Q(ε): from 2017Wa10.

Others: 1957Go40, 1960Bi09, 1960Vi03, 1960Br29, 1961Bo19, 1971BaWR, 1982Ad02.

Measured: γ, K x ray, L x ray.

No γ's (1973HaWA).

2005Ya03, 2003KoZR, 2000KoZQ: measured Auger electrons ratios.

2010Ku02, 2008Ku06, 2008Li21: measured time-dependent decay constants.

<sup>140</sup>Pr Levels

E(level)	J <sup>π</sup> †	T <sub>1/2</sub> †	Comments
0.0	1 <sup>+</sup>	3.39 min 1	%ε+%β <sup>+</sup> =100 %ε+%β <sup>+</sup> : from Adopted Levels.

† From Adopted Levels.

ε radiations

E(decay)	E(level)	Iε <sup>†</sup>	Log ft	Comments
(429 7)	0.0	100	5.45 6	εK=0.8269 18; εL=0.1343 14; εM+=0.0388 5 E(decay): Others: 470 40 from <sup>141</sup> Pr(p,2n) threshold (1970Ru11), 250 +240-110 from εK/ε=0.81 5 (1982Ad02), 131 +65-26 from εK/ε=0.745 42 (1972Ba91). Additional information 1. εL/εK=0.16 (1960Bi09), 0.8 +6-7 (1960Vi03).

† Absolute intensity per 100 decays.