

$^{240}\text{Np}$  IT decay (7.22 min) 1981Hs02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, E. Browne		NDS 109, 2439 (2008)	31-Jul-2008

Parent:  $^{240}\text{Np}$ :  $E=0+x$ ;  $J^\pi=(1^+)$ ;  $T_{1/2}=7.22$  min 2; %IT decay=0.12 1

$^{240}\text{Np}$ -E:  $x=20$  15 (1981Hs02,2003Au02); see  $^{240}\text{Np}$  'Adopted Levels'.

$^{240}\text{Np}$ - $T_{1/2}$ : from 1981Hs02. Others: 7.3 min 3 (1948Hy61), 7.3 min 3 (1953Kn23), 7.50 min 6 (1966Qa01).

$^{240}\text{Np}$ -%IT decay: %IT=0.12 1 (% $\beta$ -=99.88 1) from fractional decay to the ground state by observing growth and decay of 566.3 $\gamma$  (the strongest transition and the intensity of the 973.9 $\gamma$  following the decay of 61.9-min  $^{240}\text{Np}$ ) (1981Hs02). 1986LoZT quoted %IT=0.11 3 from an earlier NDS evaluation.

1981Hs02: Source obtained from chemical separation of Pu and its decay products including  $^{240}\text{Np}$  and  $^{240\text{m}}\text{Np}$ . Measured  $\gamma$  ray spectrum from decay of 7.22-min  $^{240\text{m}}\text{Np}$  in secular equilibrium with its 14.1-h  $^{240}\text{U}$  parent.

Others: 1966Qa01, 1953Kn23, 1948Hy61.

 $^{240}\text{Np}$  Levels

E(level)	$J^\pi$ <sup>†</sup>	$T_{1/2}$	Comments
0	(5 <sup>+</sup> )		
0+x	(1 <sup>+</sup> )	7.22 min 2	Isomeric transition(s) unknown.

<sup>†</sup> From 'Adopted Levels'.