

^{141}Gd $\beta^+\text{p}$ decay 1988WiZN

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

Parent: ^{141}Gd : $E=0.0$; $J^\pi=1/2^+$; $T_{1/2}=14$ s 4; $Q(\beta^+\text{p})=4943$ 23; $\% \beta^+\text{p}$ decay=0.03 1

^{141}Gd - $\% \beta^+\text{p}$ decay: from 1989Gi06.

1988WiZN, 1989Gi06:

Experiments completed at Lawrence Berkeley Laboratory SuperHILAC and radioactive decay properties studied at the on-line mass separation facility OASIS.

Reactions used to produce ^{141}Gd : $^{92}\text{Mo}(^{54}\text{Fe},4\text{pn})$, $E=276$ MeV; $^{92}\text{Mo}(^{52}\text{Cr},2\text{pn})$, $E=210$ MeV.

Measured β -delayed E(p), (x-ray)-p coin, γ -p coin, $T_{1/2}(\text{p})$, $\% \beta^+\text{p}$ (partly superseded by 1989Gi06).

Mean E(p)=3520 30 keV.

 ^{140}Sm Levels

E(level) [†]	J^π [†]
0.0	0 ⁺
530.7 1	2 ⁺

[†] From Adopted Levels, Gammas dataset.

 $\gamma(^{140}\text{Sm})$

E_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π
530.7 1	530.7	2 ⁺	0.0	0 ⁺

[†] From Adopted Levels, Gammas dataset.

Delayed Protons (^{140}Sm)

Particle normalization: from 1989Gi06.

E(^{140}Sm)	I(p) [†]
0.0	79 11
530.7	21 10

[†] For absolute intensity per 100 decays, multiply by 0.0003 1.

^{141}Gd β^+p decay 1988WIZNDecay Scheme