

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 156, 70 (2019)	31-Jan-2019

$Q(\beta^-) = -2420$ SY; $S(n) = 5890$ SY; $S(p) = 1910$ SY; $Q(\alpha) = 10850$ 50 [2017Wa10](#)

Estimated uncertainties ([2017Wa10](#)): $\Delta Q(\beta^-) = 570$, $\Delta S(n) = 630$, $\Delta S(p) = 520$.

$S(2n) = 13110$ 720, $S(2p) = 5380$ 640 (syst, [2017Wa10](#)).

[2007Og02](#), [2013Og01](#) (also [2011Og07](#), [2012OgZZ](#), [2007Og05](#), [2007Og01](#)): ^{278}Rg produced as α daughter of ^{282}Nh formed in $^{237}\text{Np}(^{48}\text{Ca}, 3n), E = 244$ MeV at FLNR-JINR-Dubna, in collaboration with LLNL. See ^{282}Nh Adopted Levels for details of two decay chains observed.

For theoretical studies, consult Nuclear Science References (NSR) database at NNDC, BNL for 42 primary references dealing with the half-lives and other aspects of nuclear structure in this mass region.

 ^{278}Rg LevelsCross Reference (XREF) Flags

A ^{282}Nh α decay (0.07 s)

E(level)	$T_{1/2}$	XREF	Comments
0	4.2 ms +75-17	A	$\% \alpha \approx 100$; $\% \text{SF} = ?$ Only the α decay observed. E(level): the reported activity is assumed to belong to the g.s. of ^{278}Rg . J^π : $1^-, 10^-$ from $\Omega(\text{proton}) = 9/2^-$; $\Omega(\text{neutron}) = 11/2^+$ (1997Mo25 , theory). $T_{1/2}$: from 2017Og01 and 2015Og05 reviews, based on data for two events in 2007Og02 and 2013Og01 . $E\alpha = 10.69$ MeV 8 (2017Og01 and 2015Og05 reviews) from decay of ^{278}Rg .