

Adopted Levels

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

$Q(\beta^-)=-1950$ SY; $S(n)=5540$ SY; $S(p)=1930$ SY; $Q(\alpha)=10600$ SY [2017Wa10](#)

Estimated uncertainties ([2017Wa10](#)): $\Delta Q(\beta^-)=530$, $\Delta S(n)=550$, $\Delta S(p)=510$, $\Delta Q(\alpha)=210$.

$S(2n)=12480$ 600, $S(2p)=6120$ 640 (syst, [2017Wa10](#)).

Other $Q(\alpha)=10.2$ MeV [11](#) ([2017Og01](#)) review from $E\alpha=10.0$ MeV [11](#); also 9.90 MeV [10](#) from $E\alpha=9.76$ MeV [10](#) ([2007Og02](#)).

[2007Og02](#), [2013Og01](#) (also [2011Og07](#), [2012OgZZ](#), [2007Og05](#), [2007Og01](#)): ^{274}Mt produced as α grand-daughter of ^{282}Nh formed in $^{237}\text{Np}(^{48}\text{Ca},3\text{n})$, $E=244$ 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 39 primary references dealing with the half-lives and other aspects of nuclear structure in this mass region.

 ^{274}Mt LevelsCross Reference (XREF) Flags

[A](#) ^{278}Rg α decay (4.2 ms)

E(level)	T _{1/2}	XREF	Comments
0	0.44 s +8I-17	A	% $\alpha\approx 100$; %SF=? Only the α decay mode observed with no SF events detected. E(level): the observed α activity is assumed to correspond to the ground state of ^{274}Mt . J^π : $4^+, 7^+$ from $\Omega(\text{proton})=11/2^+$, $\Omega(\text{neutron})=3/2^+$ (1997Mo25 ,theory). T _{1/2} : from 2017Og01 and 2015Og05 reviews, based on experimental data in 2007Og02 and 2013Og01 . $E\alpha=9.76$ MeV 10 or 10.0 MeV 11 (2017Og01 and 2015Og05 reviews) from ^{274}Mt α decay, based on measurements in 2007Og02 and 2013Og01 .