

Adopted Levels

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	C. Morse	NDS 182, 130 (2022).	14-Sep-2021

$Q(\beta^-) = -2899$ SY; $S(n) = 6554$ SY; $S(p) = 1928$ SY; $Q(\alpha) = 1.048 \times 10^4$ 5 [2021Wa16](#)

$\Delta Q(\beta^-) = 516$, $\Delta S(n) = 540$, $\Delta S(p) = 608$ ([2021WA16](#)).

$S(2n) = 12158$ SY 575, $S(2p) = 6495$ SY 761 ([2021WA16](#)).

^{275}Mt has been observed as the α -decay daughter of ^{279}Rg at JINR ([2004OG03,2013OG01](#)) and GSI ([2013RU11](#)). Events were identified by the observation of chains of correlated α decays, terminated by spontaneous fission. Comparison of the chains with previous studies allowed individual decays to be assigned to specific nuclei.

Half-lives, branching ratios, and α -decay energies in this evaluation have been computed from the individual events listed in the references above. Half-life uncertainties have been computed according to the method of [1984SC13](#). An additional 10 keV systematic uncertainty is assumed for the α -decay energies, which is added in quadrature to the averaged statistical uncertainty.

 ^{275}Mt LevelsCross Reference (XREF) Flags

A ^{279}Rg α decay (0.09 s)

<u>E(level)</u>	<u>$T_{1/2}$</u>	<u>XREF</u>	<u>Comments</u>
0	20 ms +24-7	A	% α =100; %SF \leq 25 E(level): Assumed ground state. $T_{1/2}$: From three events.