Adopted Levels

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

Q(β^-)=−3299 *SY*; S(n)=6870 *SY*; S(p)=1818 *SY*; Q(α)=1.053×10^4 *17* 2021Wa16
ΔQ(β^-)=578, ΔS(n)=574, ΔS(p)=662 (2021WA16).
S(2n)=12828 SY *631*, S(2p)=5865 SY *786* (2021WA16).

^{279}Rg has been observed as the α-decay product of ^{283}Nh 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 properties of the decay chains to those previously observed in the literature allowed the assignment of individual decays to specific isotopes.

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.

^{279}Rg Levels

Cross Reference (XREF) Flags

A ^{283}Nh α decay (0.07 s)

E(level)	$T_{1/2}$	XREF	Comments
0	0.09 s *+17−4*	A	%α=100; %SF≤25 E(level): Assumed ground state. $T_{1/2}$: From two events.