

Adopted Levels

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

$Q(\beta^-) = -1832$  SY;  $S(n) = 6442$  SY;  $S(p) = 2861$  SY;  $Q(\alpha) = 9.42 \times 10^3$  9    [2021Wa16](#)  
 $\Delta Q(\beta^-) = 473$ ,  $\Delta S(n) = 486$ ,  $\Delta S(p) = 598$  ([2021WA16](#)).

$S(2n) = 11761$  SY 536,  $S(2p) = 7867$  SY 732 ([2021WA16](#)).

<sup>271</sup>Bh has been observed as the  $\alpha$ -decay daughter of <sup>275</sup>Mt at JINR ([2004OG03,2013OG01](#)) and GSI ([2013RU11](#)). Chains of correlated  $\alpha$  decays terminated by spontaneous fission were observed, and comparison of their properties to previously observed chains allowed individual decays to be assigned to specific nuclei.

Half-lives, branching ratios, and  $\alpha$ -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  $\alpha$ -decay energies, which is added in quadrature to the averaged statistical uncertainty.

<sup>271</sup>Bh Levels

Cross Reference (XREF) Flags

[A](#)    <sup>275</sup>Mt  $\alpha$  decay (20 ms)

E(level)	T <sub>1/2</sub>	XREF	Comments
0	1.5 s +28-6	<a href="#">A</a>	% $\alpha$ =100; %SF $\leq$ 25 E(level): Assumed ground state. T <sub>1/2</sub> : From two events.