

Adopted Levels

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

$Q(\beta^-) = -890$ SY; $S(n) = 5320$ SY; $S(p) = 2830$ SY; $Q(\alpha) = 9060$ 50 [2017Wa10](#)

Estimated uncertainties ([2017Wa10](#)): $\Delta Q(\beta^-) = 380$, $\Delta S(n) = 470$, $\Delta S(p) = 460$.

$S(2n) = 12720$ 480, $S(2p) = 7410$ 600 (syst, [2017Wa10](#)).

[2007Og02](#) (also [2013Og01](#)): ^{270}Bh produced as α great-granddaughter of ^{282}Nh , which was formed in $^{237}\text{Np}(^{48}\text{Ca}, 3n), E = 244$

MeV reaction at FLNR-JINR-Dubna, in collaboration with LLNL. See ^{282}Nh Adopted Levels for experimental details of two decay chains observed. See also related references: [2012OgZZ](#), [2011Og07](#), [2009Og07](#) and [2007Og05](#).

For theoretical studies, consult Nuclear Science References (NSR) database at NNDC, BNL for 35 primary references dealing with the half-lives and other aspects of nuclear structure in this mass region.

 ^{270}Bh LevelsCross Reference (XREF) Flags

A ^{274}Mt α decay (0.44 s)

E(level)	$T_{1/2}$	XREF	Comments
0	1.0 min +49-5	A	$\% \alpha \approx 100$; $\% \text{SF} = ?$ $\% \alpha$: only α decay observed. E(level): the observed α activity is assumed to correspond to the ground state of ^{270}Bh . J^π : $6^+, 7^+$ from $\Omega(\text{proton}) = 1/2^-$, $\Omega(\text{neutron}) = 13/2^-$ (1997Mo25 , theory). $T_{1/2}$: 61 s +292-28 (2017Og01 and 2015Og05 reviews) from one event in 2007Og02 . $E\alpha = 8.93$ MeV 8 from ^{270}Bh α decay (2017Og01 and 2015Og05 reviews) based on data in 2007Og02 .