Adopted Levels

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

 $Q(\beta^{-}) = -3893 SY; S(n) = 7411 SY; S(p) = 2141 SY; Q(\alpha) = 9230 SY$ 2021Wa16

 $\Delta Q(\beta^{-})=279, \Delta S(n)=309, \Delta S(p)=359, \Delta Q(\alpha)=202$ (2021WA16).

S(2n)=13773 SY 355, S(2p)=6195 SY 345 (2021WA16).

²⁶⁷Bh has been observed in the ²⁴⁹Bk(²²Ne,4n) reaction at LBNL (2000WI15) and at the Paul Scherrer Institute (2000EI05), and in the ²⁴⁸Cm(²³Na,4n) reaction at RIKEN (2009MO12). Events were identified by the observation of chains of α-decaying nuclei. Comparison of the properties of these chains with previous studies allowed individual decays to be assigned to specific nuclei.
2020HA27 raises the possibility that previous observations of ²⁶⁷Bh actually correspond to ²⁶⁶Bh, based on a revision of the decay

properties of ²⁶⁶Bh discussed in that work.

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.

²⁶⁷Bh Levels

Comments

 $\frac{E(\text{level})}{0} = \frac{T_{1/2}}{14 \text{ s} + 6 - 3}$

 $\%\alpha$ =100; %SF<8 E(level): Assumed ground state. T_{1/2}: From 11 events.

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