

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Y. A. Akovali	NDS 87,309 (1999)	1-Nov-1998

$Q(\beta^-) = -3.51 \times 10^3$ syst; $S(n) = 6.5 \times 10^3$ syst; $S(p) = 1.42 \times 10^3$ syst; $Q(\alpha) = 9.96 \times 10^3$ syst [2012Wa38](#)
Note: Current evaluation has used the following Q record -3426 syst 6596 syst 1311 syst 9967 syst [1995Au04](#).
Assignment: ²⁰⁹Bi(⁶⁴Ni,X); E(⁶⁴Ni)=316, 318 and 320 MeV; parent of 1.52-s ²⁶⁰Db and 28-s ²⁵⁶Lr ([1995Ho04](#)).

²⁶⁴Bh Levels

Cross Reference (XREF) Flags

[A](#) ²⁶⁸Mt α decay

E(level)	T _{1/2}	XREF	Comments
0.0	0.44 s +60-16		$\% \alpha \leq 100$ T _{1/2} : from α 's observed at various times, 1995Ho04 obtained T _{1/2} (9475 α)=98 ms, T _{1/2} (9619 α)=334 ms and T _{1/2} (9619 α)=1452 ms, all assigned to g.s. decay. In their summary table, T _{1/2} (²⁶⁴ Bh)=440 +600-160 ms is given. The partial half-lives for α and β decays were calculated by 1997Mo25 as 1.23 s and 10.99 s, respectively. Partial half-life for spontaneous fission was calculated by 1985Lo17 : the result was shown on their plot as log T _{1/2} (SF) \approx -9 in years. $\% \alpha$: only the α decay of ²⁶⁴ Bh was observed. Additional information 1.
≈ 300		A	
≈ 445		A	