^{272}Bh α decay (10.5 s) 2004Og03,2013Ru11,2013Og01

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 156, 148 (2019)	31-Jan-2019

Parent: ^{272}Bh: E=0; $T_{1/2}$=10.5 s *+15−11*; Q(α)=9300 *50*; %α decay≈100.0
^{272}Bh-$T_{1/2}$: From ^{272}Bh Adopted Levels.
^{272}Bh-Q(α): From 2017Wa10.
^{272}Bh-%α decay: Assumed %α=100 for ^{272}Bh decay.
^{272}Bh produced in α-decay chain: ^{288}Mc -> ^{284}Nh -> ^{280}Rg -> ^{276}Mt -> ^{272}Bh, where ^{288}Mc produced in ^{243}Am(^{48}Ca,3n).
See ^{272}Bh Adopted Levels for details of production and half-life of the isotope.

^{268}Db Levels

E(level)	$T_{1/2}$	Comments
0	28 h *3*	$T_{1/2}$: from Adopted Levels.
≈140		

α radiations

Eα†	E(level)	Iα†‡	Comments
8.93×10^3 *1*	≈140	25	
9.07×10^3 *1*	0	75	Eα: other: 9.02 MeV *6* (2004Og03). Assumed as g.s. to g.s. α transition.

† From 2013Ru11.
‡ For absolute intensity per 100 decays, multiply by ≈1.0.

γ(^{268}Db)

E_γ	E_i(level)	E_f	Comments
≈140	≈140	0	E_γ: from 2013Ru11, based on Eα values. Authors mention that the simulated γ-ray yield is marginal and consistent with an empty spectrum from the Ge detector. Mult.: M1 or E2 suggested by 2013Ru11, but no arguments are provided. It is that the γ-ray would have been seen clearly if it were E1.

^{272}Bh α decay (10.5 s) 2004Og03,2013Ru11,2013Og01

Decay Scheme