^{246}Es α decay

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. J. Martin, C. D. Nesaraja	NDS 186, 261 (2022)	31-Dec-2021

Parent: ^{246}Es: E=0.0; $T_{1/2}$=7.5 min *5*; Q(α)=7640 *SY*; %α decay=9.9 *18*
^{246}Es-Q(α): ΔQ(α)=100 (syst,2021Wa16).
$T_{1/2}$(^{246}Es)=7.5 min *5*, %α=9.9 *18*, adopted in 2011Br11;

^{242}Bk Levels

E(level)	$T_{1/2}$	Comments
(0.0)	7.0 min *13*	
≈150		E(level): calculated from Q(α)=7640 and Eα=7370 *4*.

α radiations

Eα	E(level)	Iα[‡]	HF[†]	Comments
7370 *4*	≈150	100	3.8 *21*	Eα: measurement of 1989Ha27. Other measurements: 7350 (1954Gh12), 7330 *30* (1967Mi06), 7360 *30* (1973Es01). Iα: only one α group from ^{246}Es decay has been identified.

[†] The nuclear radius parameter r_0(^{242}Bk)=1.498 *26* is deduced from unweighted average of radius parameters of the adjacent nuclides ^{241}Cm and ^{243}Cf. See 2020Si16 to determine radius parameter for both these nuclides from adjacent nuclides.
[‡] For absolute intensity per 100 decays, multiply by 0.099 *18*.