$^{211}{\rm Th}~\alpha$ decay 1995Uu01

History							
Туре	Author	Citation	Literature Cutoff Date				
Full Evaluation	F. G. Kondev, S. Lalkovski	NDS 112, 707 (2011)	1-Aug-2010				

Parent: ²¹¹Th: E=0; T_{1/2}=37 ms +28-11; Q(α)=7942 14; % α decay \approx 100.0

²¹¹Th-Q(α) from measured Eα=7792 keV 14 (1995Uu01).
1995Uu01: ²¹¹Th activity was produced by ¹⁸¹Ta(³⁵Cl,5n), E=182, 191 MeV, and was separated using a gas-filled magnetic recoil separator. ²¹¹Th was identified on the basis of correlated alpha-decay from the granddaughter nuclei ²⁰³Rn. Others (from the same collaboration): 1995Le41, 1995Le15.

Other: 1997Mi03.

²⁰⁷Ra Levels

E(level) [†]	Jπ†	T _{1/2} †
0	(3/2-,5/2-)	1.35 s -13+22

[†] From Adopted Levels.

α radiations

Eα	E(level)	$I\alpha^{\ddagger}$	HF^{\dagger}	Comments	
7792 14	0	100	≈1.2	$E\alpha_{\rm s}I\alpha_{\rm s}$ From 1995Uu01. It is assumed that the observed $E\alpha$ feeds directly the ²⁰⁷ Ra g.s.	

[†] Using $r_0(^{207}Ra)=1.517$ 24, weighted average deduced from values for neighboring even-even ^{206}Ra ($r_0=1.517$ 50) and ^{208}Ra (r₀=1.519 27) nuclei.

[‡] For absolute intensity per 100 decays, multiply by ≈ 1.00 .