^{113}Xe α decay   **1978Ro19,1979Sc22**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. Kumar(a), J. Chen(b) and F. G. Kondev	NDS 137, 1 (2016)	31-May-2016

Parent: ^{113}Xe: E=0.0; J^{π}=(5/2$^+$); $T_{1/2}$=2.74 s 8; $Q(\alpha)$=3087 8; %α decay=0.010 10

^{113}Xe-%α decay: From estimated upper limit of %α < 0.020 in 1985Ti05. A value of %α=0.035 was estimated by 1978Ro19.

1979Sc22: activity using E(^{58}Ni)= 290 MeV beam on a ^{58}Ni (4 mg/cm^2) target, UNILAC GSI; Tantalum catcher, GSI mass separator; Detector: Windmill system, ΔE-E telescopes. Measured: Eα.

Others: 1978Ro19, 1973Ha37, 1979Ew02.

^{109}Te Levels

E(level)	J^{π}	$T_{1/2}$	Comments
0.0	(5/2$^+$)	4.4 s 2	J^{π},$T_{1/2}$: From Adopted Levels.

α radiations

Eα	E(level)	Iα[‡]	HF[†]	Comments
2978 8	0.0	100	≤2.7	Eα: From Qα. Measured Eα=2985 keV 15 (1979Sc22) and 2990 keV 30 (1978Ro19).

[†] r_0(^{109}Te)=1.64 6, taken from r_0(^{108}Te), deduced by assuming HF=1.0.

[‡] For absolute intensity per 100 decays, multiply by 0.00010 10.