Coulomb excitation **2002Ja02,1993Sp01,1975EdZY**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 152, 331 (2018)	1-Apr-2018

2002Ja02: ^{nat}Ti(^{136}Xe,^{136}Xe′γ) with E(^{136}Xe)=485 MeV. Measured Eγ, Iγ, $\gamma(\theta)$, particle-γ-coin using a solar cell detector and two HPGe detectors; deduced $T_{1/2}$ from Doppler Shift Attenuation method (DSAM) and g factors from the transient field technique.

1993Sp01: (^{32}S,^{32}S′γ) with E(^{32}S)=100 MeV. Measured Eγ, Iγ, particle-γ coin, $\gamma(\theta$,H) using an annular Si detector and four BaF_2 scintillators; deduced $T_{1/2}$ from DSAM and g factors from the transient field technique. Updated by 2002Ja02.

1975EdZY: (α,α') with E(α)=10-13 MeV. Measured back-scattered α-particles in an annular surface barrier detector.

^{136}Xe Levels

E(level)†	J$^\pi$†	$T_{1/2}$	Comments
0.0	0^+		
1313.0	2^+	0.360 ps *14*	g=+0.77 *5* (2002Ja02) $T_{1/2}$: from DSAM in 2002Ja02. Others: 0.21 ps *3* (1993Sp01), 0.40 ps *18* from B(E2) (1975EdZY). B(E2)↑: 0.18 *8* (1975EdZY).
1694.4	4^+		g=+1.08 *43* (2002Ja02)

† From the Adopted Levels.

$\gamma(^{136}Xe)$

E$_\gamma$†	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
381.4	1694.4	4^+	1313.0	2^+
1313.0	1313.0	2^+	0.0	0^+

† From the Adopted Gammas. Observation of these transitions is indicated in Figure 2 of 2002Ja02.

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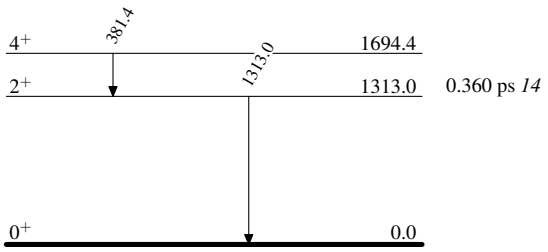
Level Scheme



$^{136}_{54}Xe_{82}$