Coulomb excitation **2002Ja02,1990Na05,1975Go18**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov, A. A. Rodionov and S. Sakharov, Balraj Singh	NDS 104, 497 (2005)	10-Feb-2005

2002Ja02: Ti(^{132}Xe,^{132}Xe), E=485, 508 MeV. Ti-Gd target, H=1.6 kOe, solar cell and Ge detectors. Measured (Ti-ion)-γ coin; g factors by IMPAC, lifetimes by DSAM.

1993Sp01: (^{32}S,^{32}S$'\gamma$) E=100 MeV. Measured $\gamma(\theta$,H) In polarized iron, (particle)γ coin, deduced g factor and lifetime of the first 2^+.

1990Na05: ^{58}Ni(^{132}Xe,^{132}Xe$'\gamma$), E=440 MeV. Measured $\gamma\gamma$, $\gamma(\theta)$, (scattered particle)-γ coin, lifetime by DSAM and recoil-distance method; gas counter and Ge detector.

1977Ar19: measured $\gamma\gamma(\theta$,H), IMPAC technique, g factor for 2^+.

1975Go18: (^{16}O,^{16}O$'\gamma$), E=36, 42 MeV. Measured γ, $\gamma\gamma$, $\gamma(\theta$,H), ^{16}O(backscattered)-γ coin, lifetime and g factor by IMPAC. Xe(F) target, H=1.9 kOe.

^{132}Xe Levels

E(level)	J^π †	$T_{1/2}$	Comments
0.0	0^+		
667.7	2^+	4.62 ps *20*	B(E2)↑=0.46 *3* g=+0.314 *12* (2002Ja02) $T_{1/2}$: weighted average of 4.57 *14* (2002Ja02) and 4.84 *28* (1990Na05). B(E2)↑: average of 0.50 *4* (1975EdZY) and 0.44 *3* (1975Go18). Other: 1958Pi05. g: Others: +0.349 34 (1993Sp01), +0.39 *5* (1975Go18), +0.37 *5* (1977Ar19).
1297.9	2^+	3.05 ps *28*	g=+0.1 *2* (2002Ja02) $T_{1/2}$: from 2002Ja02.
1440.3	4^+	1.80 ps *14*	g=+0.61 *11* (2002Ja02) $T_{1/2}$: from 2002Ja02.

† From Adopted Levels.

$\gamma(^{132}Xe)$

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.
630.2	1297.9	2^+	667.7	2^+	
667.7	667.7	2^+	0.0	0^+	E2
772.6	1440.3	4^+	667.7	2^+	
1297.9	1297.9	2^+	0.0	0^+	

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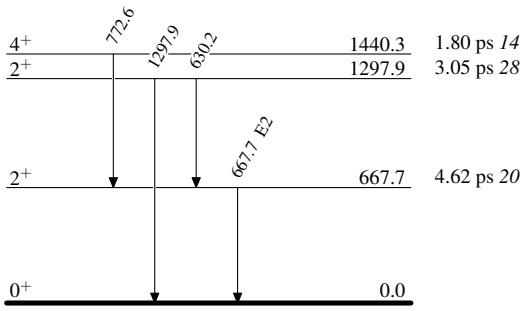
Level Scheme



$^{132}_{54}Xe_{78}$