

$^{208}\text{Pb}(^{37}\text{Cl},\text{X}) \quad 1997\text{Fo01}$

Type	Author	Citation	History
Full Evaluation	Balraj Singh	ENSDF	Literature Cutoff Date
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1997Fo01 (also **1998Fo07**): E=230 MeV. Measured E_{γ} , I_{γ} , $\gamma\gamma$ coin, delayed $\gamma\gamma$ coin, deduced isomer. The GASP array of 40 Compton-suppressed Ge detectors used.

Other: **2002AsZY**: $^{198}\text{Pt}(^{37}\text{Cl},\text{X})$ E=9 MeV/nucleon. Measured E_{γ} , I_{γ} , $\gamma\gamma$ coin, (fragment) γ coin, deduced isomer. Set of four Ge detectors used.

 ^{32}Si Levels

E(level)	J^{π}	T _{1/2}	Comments
0	0 ⁺		
1942	2 ⁺		J^{π} : from the Adopted Levels.
5502	4		J^{π} : (4 ⁺) assigned by 1997Fo01 , but 2002AsZY assign (5 ⁻). T _{1/2} : 2002AsZY assign isomer of T _{1/2} =33.4 ns 5 to this state.
5581	4	27 ns 2	E(level): level proposed by 1997Fo01 (also 1998Fo07). But 2002AsZY using $^{198}\text{Pt}(^{37}\text{Cl},\text{X})$ at 9 MeV/nucleon did not confirm this level since they did not observe 79-keV γ ray. J^{π} : (5 ⁻) assigned by 1997Fo01 , based on systematics of (5 ⁻) to (4 ⁺) transitions in N=18 isotones (^{34}S and ^{36}Ar), but 2002AsZY assign 5 ⁻ to 5502 level. T _{1/2} : from $\gamma(t)$ in 1997Fo01 . 2002AsZY report an isomer with T _{1/2} =33.1 ns 5 but assign this isomer to 5502 state.

 $\gamma(^{32}\text{Si})$

E _{γ}	E _i (level)	J_i^{π}	E _f	J_f^{π}	Comments
79 I	5581		5502		E_{γ} : from 1997Fo01 , not confirmed by 2002AsZY . It should be pointed out that 1997Fo01 used a much bigger (GASP) array for γ ray detection than the four-detector arrangement used by 2002AsZY .
1942	1942	2 ⁺	0	0 ⁺	
3560	5502		1942	2 ⁺	

$^{208}\text{Pb}(\text{Cl},\text{X}) \quad 1997\text{Fo01}$ Level Scheme