

Coulomb excitation 2006Mu04

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. Katakura, Z. D. Wu		NDS 109, 1655 (2008)	1-Apr-2008

2006Mu04: Xe beam on ^{58}Ni , E=555, 556, 553, 563, 571 and 579 MeV; measured γ , B(E2) and B(E3).

2006Ch26: ^{124}Xe beam on movable ^{93}Nb target, E=54.9 MeV/u; measured γ , lifetime with TOF.

1975Go18: ($^{16}\text{O}, ^{16}\text{O}'$) E=36, 42 MeV, semi, measured $^{16}\text{O}'-\gamma$ coin.

 ^{124}Xe Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	0^+		
354.7	2^+	44 ps +7-6	B(E2) \uparrow =1.12 +12-9; g=0.23 2 g: From ion implantation PAC. $T_{1/2}$: from B(E2) (1975Go18); others: 56 5 (2006Ch26). B(E2) from 2006Mu04; other: 0.90 7 (1975Go18).
879	4^+		
1898	$3^{(-)}$		B(E3) \uparrow =0.091 10 J^π : Negative parity is proposed from systematics in 2006Mu04. B(E3) from 2006Mu04.

 $\gamma(^{124}\text{Xe})$

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
354.7	2^+	354		0.0	0^+
879	4^+	525		354.7	2^+
1898	$3^{(-)}$	1019 16 8		879 4 $^+$	
		1544 100 13		354.7 2 $^+$	

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Intensities: Relative photon branching from each level

