Coulomb excitation 1998Ib01

History								
Туре	Author	Citation	Literature Cutoff Date					
Full Evaluation	Jun Chen	NDS 152, 1 (2018)	30-Sep-2017					

1998Ib01: ¹⁹⁷Au(³⁸Si,³⁸Si') E=42.2 MeV/nucleon ³⁸Si beam was produced by fragmentation of E=80 MeV/nucleon ⁴⁰Ar and E=70 MeV/nucleon ⁴⁸Ca primary beams provided by the K1200 cyclotron at NSCL on a 356 mg/cm² ⁹Be target. Fragments were identified and separated by the A1200 fragment separator. The secondary target was 532 mg/cm² ¹⁹⁷Au. γ rays were detected with an array of 39 cylindrical NaI(Tl) detectors and scattered particles were detected in a fast/slow plastic phoswich detector. Measured $\sigma(E\gamma)$, particle- γ -coin. Deduced B(E2), deformation parameter. Comparisons with shell-model calculations.

1010

E(level)	J^{π}	Comments		
0 1084 <i>20</i>	0+ 2+	B(E2) \uparrow =0.019 7 (1998Ib01) J ^{π} : Coulomb excitation from 0 ⁺ . integrated cross section=65 mb 24 (1998Ib01).		
			$\gamma(^{38}\text{Si})$	

Eγ	E _i (level)	\mathbf{J}_i^{π}	\mathbf{E}_{f}	\mathbf{J}_f^{π}
1084 20	1084	2^{+}	0	0^{+}

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Level Scheme

