Coulomb excitation 2007Kr19

		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 146, 1 (2017)	30-Sep-2017

2007Kr19: 96 Mo(138 Xe, 138 Xe') E=2.84 MeV/nucleon 138 Xe beam was produced from the LINAC accelerator at REX-ISOLDE facility at CERN. Target was 96 Mo of 1.7 mg/cm² thickness. γ rays were detected with the MINIBALL spectrometer consisting of 8 triple clusters of six-fold segmented HPGe detectors; scattered particles were detected with a double-sided segmented Si detector (DSSSD). Measured E γ , I γ , particle- γ -coin. Deduced B(E2).

¹³⁸Xe Levels

E(level)	\mathbf{J}^{π}	T _{1/2}		Comments			
0 588.8	0 ⁺ 2 ⁺				B(E2) \uparrow =0.38 <i>10</i> (2007Kr19) Results for B(E2) \uparrow are preliminary as stated by 2007Kr19. E(level): Round-off value from Adopted Levels. T _{1/2} : Deduced from measured B(E2) \uparrow .		
						γ ⁽¹³⁸ Xe)	
Eγ	E _i (level) J_i^{π}	$\underline{\mathrm{E}}_{f}$ $\underline{\mathrm{J}}_{f}^{\pi}$	Mult.	α^{\dagger}	Comments	
588.8	588.8	2+	0 0+	E2	0.00577	α (K)=0.00491 7; α (L)=0.000686 10; α (M)=0.0001398 20 α (N)=2.87×10 ⁻⁵ 4; α (O)=3.48×10 ⁻⁶ 5 E _y : Round-off value from Adopted Gammas.	

[†] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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Level Scheme

