

**Coulomb excitation 2007Kr19**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 154, 1 (2018)	20-Nov-2018

**Additional information 1.**Beam= $^{140}\text{Xe}$ , target= $^{96}\text{Mo}$ .E=2.84 MeV/nucleon beam provided by LINAC accelerator at REX-ISOLDE facility at CERN. Measured  $E\gamma$ 's using MINIBALL array of eight segmented HPGe detectors. Kinematics determined with double-sided silicon strip detector. $^{140}\text{Xe}$  Levels

<u>E(level)</u>	<u>J<math>\pi</math></u>	<u>T<math>_{1/2}</math></u>	<u>Comments</u>
0.0	0 <sup>+</sup>		
376.7	2 <sup>+</sup>	70 ps 14	B(E2) $\uparrow$ =0.52 10 (2007Kr19) Results for B(E2) $\uparrow$ are preliminary as stated by 2007Kr19. T $_{1/2}$ : from B(E2) $\uparrow$ value.
834.3	4 <sup>+</sup>		

 $\gamma(^{140}\text{Xe})$ 

<u>E<math>_{\gamma}</math></u>	<u>E<math>_i</math>(level)</u>	<u>J<math>^{\pi}_i</math></u>	<u>E<math>_f</math></u>	<u>J<math>^{\pi}_f</math></u>	<u><math>\alpha^{\dagger}</math></u>
376.7	376.7	2 <sup>+</sup>	0.0	0 <sup>+</sup>	0.0205
457.6	834.3	4 <sup>+</sup>	376.7	2 <sup>+</sup>	

$\dagger$  Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on  $\gamma$ -ray energies, assigned multiplicities, and mixing ratios, unless otherwise specified.

**Coulomb excitation 2007Kr19**Level Scheme