

$^{208}\text{Pb}(^{136}\text{Xe}, ^{136}\text{Xe}'\gamma)$  **1982BoZN,2011Ke01**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 152, 331 (2018)	1-Apr-2018

**1982BoZN**:  $E(^{136}\text{Xe})=884$  MeV. Measured  $E\gamma$  in beam-off periods using four Ge detectors.

**2011Ke01**:  $E(^{136}\text{Xe})=940$  MeV. Measured  $E\gamma$ , recoil- $\gamma$  coincidences using the AGATA Demonstrator consisting of three AGATA Triple Cluster HPGe detectors and the PRISMA spectrometer to identify beam-like fragments.

Others: Double GDR was investigated in [1993Sc07](#), [1994KuZP](#), [2000AuZZ](#), [2003Bo23](#).

Both **2011Ke01** and **1982BoZN** present only spectra with lines from  $^{136}\text{Xe}$  indicated. Level scheme is added here by evaluator on the basis of Adopted Levels and Gammas. The 197 $\gamma$ , 381 $\gamma$  and 1313 $\gamma$  were identified by **1982BoZN**, whereas only the latter two transitions were observed by **2011Ke01**.

 $^{136}\text{Xe}$  Levels

<u><math>E(\text{level})^\dagger</math></u>	<u><math>J^\pi^\dagger</math></u>
0.0	$0^+$
1313.0	$2^+$
1694.4	$4^+$
1891.7	$6^+$

$^\dagger$  From the Adopted Levels.

 $\gamma(^{136}\text{Xe})$ 

<u><math>E_\gamma^\dagger</math></u>	<u><math>E_i(\text{level})</math></u>	<u><math>J_i^\pi</math></u>	<u><math>E_f</math></u>	<u><math>J_f^\pi</math></u>
197.3	1891.7	$6^+$	1694.4	$4^+$
381.4	1694.4	$4^+$	1313.0	$2^+$
1313.0	1313.0	$2^+$	0.0	$0^+$

$^\dagger$  From the Adopted Gammas.

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Level Scheme

