## <sup>208</sup>Pb( $\mathbf{p}, \gamma$ ): giant resonance **1974Sn01**

History				
Туре	Author	Citation	Literature Cutoff Date	
Full Evaluation	J. Chen <sup>#</sup> and F. G. Kondev	NDS 126, 373 (2015)	30-Sep-2013	

E=17.5-25.0 MeV proton beam was produced from the three-stage FN accelerator at the University of Washington. Target was self-supporting 2.8 mg/cm<sup>2</sup> <sup>208</sup>Pb.  $\gamma$ -rays were detected with a 10 inch by 10 inch. NaI detector. Measured  $\gamma(\theta)$ . Deduced resonance.

Excitation function and asymmetry measured for unresolved  $\gamma$ 's to g.s., 897, and 1608 levels.

<sup>209</sup> Bi	Levels
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E(level)	Comments
0.0	

≈23000 Γ≈3.5 MeV

Based on a comparison with a collective E0 or E2 resonance observed at  $\approx 22$  MeV in <sup>208</sup>Pb(e,e'), the authors suggest that the observed resonance at 23 MeV is a collective E2 excitation. Observation in  $(p,\gamma)$  rules out E0.