

$^{208}\text{Pb}(\pi^+, \pi^0)$

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	M. J. Martin	NDS 108,1583 (2007)	1-Jun-2007

[1980Ba27](#) E=98 MeV.

[1983Se16](#) E=165, 230, 295 MeV.

[1986Er09](#) E=165 MeV. FWHM=6 MeV.

[1989Lo12](#) E=300, 450, 500 MeV. FWHM=5.4 MeV At 300 MeV, 12.8 At 500.

All authors report observation of the analog of the ^{208}Pb ground state, but neither the energy nor the Γ are given explicitly. The peak is most prominent At the lowest bombarding energy. Data for the dipole resonance are from [1989Lo12](#), and for the monopole resonance from [1986Er09](#). The authors quote excitation energies of 26600 500 and 37200 3500, respectively, relative to the target.

 ^{208}Bi Levels

<u>E(level)</u>	<u>J^π</u>	<u>L</u>	<u>Comments</u>
24.2×10^3	5	1^-	1 J^π : from L=1 and non spin-flip nature of the (π^+, π^0) reaction At forward angles. Γ : held fixed At 6 MeV. Value taken from RPA calculation As given by 1986Er09 . configuration: interpreted by authors As the electric isovector dipole resonance (see 1986Er09 and 1989Lo12).
35×10^3	4	0^+	0 $\Gamma=15000$ keV 6000 J^π : from L=0 and non spin-flip nature of the (π^+, π^0) reaction At forward angles. configuration: interpreted by authors As the electric isovector monopole resonance (see 1986Er09 and 1989Lo12).