## <sup>209</sup>Bi(p,p'): giant resonance 1975Ma07

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1975Ma07: E=155 MeV achromatic proton beam was produced Orsay synchrocyclotron. A target of 100 mg/cm<sup>2</sup> thick <sup>209</sup>Bi was used. Scattered protons were detected in the image plane of a magnetic analyzer by means of a proportional chamber, FWHM=200-250 keV,  $\theta$ =8°-20°, momentum transfer=0.4-1 fm<sup>-1</sup>. Measured  $\sigma$ (E<sub>p</sub>, $\theta$ ). Deduced giant resonances, level width. Others: 1971Be32, 1972Le39.

## <sup>209</sup>Bi Levels

E(level)  $L^{\dagger}$   $β_L$  Comments

9000 (2) 0.028 % energy weighted E2 sum rule=9.

10700 (2) 0.047  $\Gamma$ =2.2 MeV  $< r^2 > 1/2 = 5.52$  fm. % energy weighted E2 sum rule=29.

<sup>†</sup> From DWBA analysis.