

Discussion: GDR in alpha gas states; structure of family of Hoyle states

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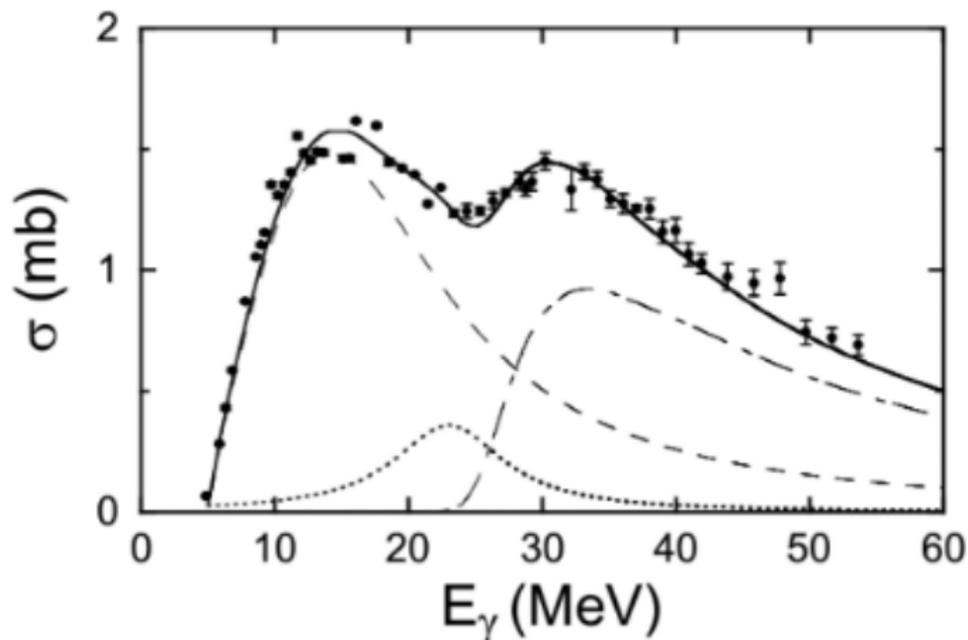
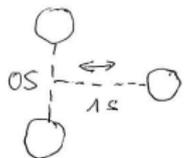
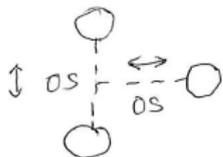


FIG. 11. Fitting of the present data assuming the LEDR at $E_r = 12$ MeV and $\Gamma = 21$ MeV (dashed curve) and the HEDR at $E_r = 33$ MeV and $\Gamma = 30$ MeV (dash-dotted curve). A small resonance was introduced at $E_r = 23$ MeV and $\Gamma = 10$ MeV (dotted curve).

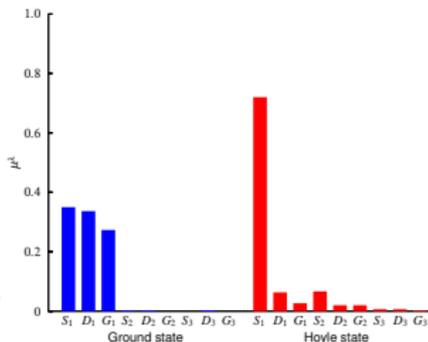
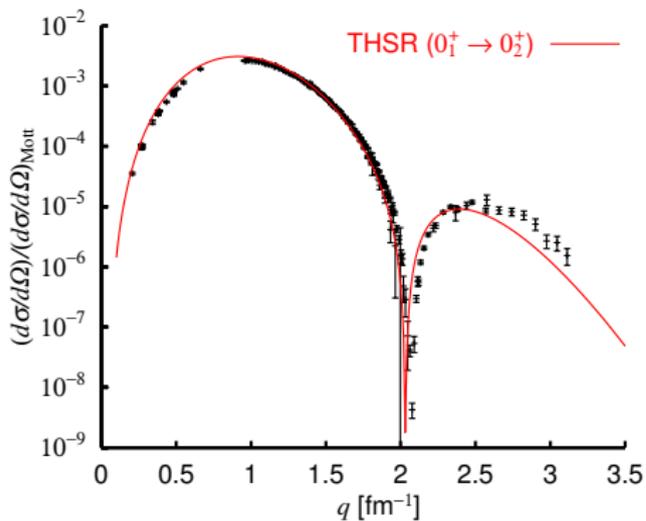
Structure of 3rd O^+ in ^{12}C



or breathing ?



THSR: single analytic antisymmetrized 12 nucleon wave function with no adjustable parameters



Alpha-condensation: QPT

