

Dynamical Coupled Channels theory for nucleon resonances and other excited/unusual states

Data on the photo- and electroproduction of different hadrons provide access to the spectrum of excited baryons and its properties. Recent results from the Jülich-Bonn-Washington model will be presented, including extensions to the electroproduction of pions and η mesons. The amplitudes and resonance properties obtained through this phenomenological analysis can serve as a point of comparison for theories and models of excited baryons and their dynamics. Three-body dynamics plays an important role for excited baryons, so the first calculation of a three-body resonance from lattice QCD, the $a_1(1260)$, is presented and put into context with baryons.

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