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The Bonn-Gatchina PWA: Search for New States and Study of Resonance Properties

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The latest combined analysis of the meson photo-production data and data from pion-induced reactions is presented. The data base was extended by including the latest double polarization data on pion photoproduction off proton and data on the η , π^0 and π^- photoproduction off neutron. The analysis is done in the framework of the old K-matrix approach and new N/D-based method which fully satisfies unitarity and analyticity conditions. The property of observed resonances are presented and different interpretations of the spectrum are discussed.