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## Compton scattering off proton in the nucleon resonance region

## **Summary**

The Compton scattering off proton in the third resonance region is analyzed for the first time, owing to the full combined analysis of pion- and photo-induced reactions in a coupled-channel effective Lagrangian model with K-matrix approximation. Two isospin 3/2 resonances D33(1700) and F35(1930) are found to be essential in the range of 1.6 - 1.8 GeV. The recent beam asymmetry data of Compton scattering from the GRAAL facility are used to determine the helicity couplings of these resonances, and strong constraint comes also from data of  $\pi N$  and  $K\Sigma$  photoproduction. Possible role of new narrow resonances is discussed.

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