

Development of Coupled-Channel Reaction Models for KY Photo- and Electroproduction

mercoledì 19 ottobre 2022 14:30 (30 minuti)

Not long ago, we have developed and implemented a novel (Jülich-Bonn-Washington) model for pion electroproduction off the proton. Based on phenomenological (Jülich-Bonn) model, it incorporated constraints from the photoproduction and scattering data. Going to non-zero virtuality of the photon ($Q^2 > 0$) it allows now to address the abundant ($O(10^5)$) electroproduction data.

In this talk we present general construction principles (including gauge invariance and threshold behavior constraints) of this approach and its generalisation to ηN and $K\Lambda$ electroproduction channels.

Autore principale: MAI, Maxim (U. Bonn & GWU)

Relatore: MAI, Maxim (U. Bonn & GWU)

Classifica Sessioni: Parallel 3

Classificazione della track: Hyperon production with electromagnetic probes