

Recent results of the pion-nucleon scattering and the widths of the delta and Roper resonances in BChPT

Friday, 8 June 2018 10:30 (0:30)

Collaboration

Abstract content

Recent calculations of the pion-nucleon scattering in covariant baryon chiral perturbation theory with explicit Δ resonances will be presented. Two-loop results of the widths of the Δ - and Roper resonances will be discussed in the framework of an effective field theory with nucleons, pions and the Roper and Δ resonances as dynamical degrees of freedom.

Primary author(s) : GEGELIA, Jambul (IAS/IKP, FZ Juelich)

Presenter(s) : GEGELIA, Jambul (IAS/IKP, FZ Juelich)

Session Classification : Plenary Session