



Contribution ID: 60

Type: Oral communications

Odderon Physics at High Energies

Wednesday, March 12, 2025 5:15 PM (15 minutes)

In its simplest configuration from the QCD viewpoint, the Odderon is a color singlet made up of three gluons. More specifically, in perturbative QCD, the Odderon can be associated with a colorless C -odd t -channel state, with an intercept at or near one, that either does not vanish or decreases very slowly with increasing energy. We examine the constraints on the Odderon's properties and its description in perturbative QCD. Additionally, we discuss experimental evidence for Odderon's contribution to high-energy proton-proton elastic scattering and its potential manifestations in other processes.

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Session Classification: Oral communications