

New results on central exclusive production at hadron colliders

Tuesday, 11 September 2012 10:00 (20 minutes)

Summary

Central exclusive production (CEP) processes in high-energy hadron collisions provide an especially clean environment in which to study the nature and quantum numbers of the new resonance states.

In this talk we discuss selected topics on the CEP, from the so-called diffractive Higgs to heavy resonance production within the formalism developed by the Durham group. We present the new results on the CEP of heavy quarkonia, diphotons and dimesons. We compare the theoretical expectations with the existing experimental results from the Tevatron and the LHC and present further predictions for the CEP processes at the RHIC and LHC colliders.

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