Lattice2010



Contribution ID: 208

Type: not specified

Flavor dependence of the S parameter in SU(3) gauge theory

Thursday, 17 June 2010 15:10 (20 minutes)

Precision electroweak observables such as the Peskin–Takeuchi S parameter have long been used to constrain models of electroweak symmetry breaking that involve new strong dynamics. However, nonperturbative calculations of S from first principles have previously only been performed for QCD. I present initial results by the Lattice Strong Dynamics (LSD) Collaboration for the S parameter in SU(3) gauge theory with 2 and 6 flavors of fermions in the fundamental representation.

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Talk

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Track Classification: Applications beyond QCD