



LABORATORY FOR ELEMENTARY-PARTICLE
PHYSICS (LEPP)

Theory Seminar

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Epsilon'/epsilon beyond the SM:

The long standing deviation of the measured value of ϵ'/ϵ from the Standard Model prediction calls for a rigorous analysis of effects beyond the Standard Model (BSM) to $K \rightarrow \pi\pi$ decays. In this talk I will present results of scalar-scalar and tensor-tensor matrix elements relevant for ϵ'/ϵ , which have been obtained for the first time recently, using the Dual QCD approach. Furthermore I will present a master formula which allows to compute the value of ϵ'/ϵ in any given BSM scenario. Finally ϵ'/ϵ will be analysed in a model independent way in the light of the SMEFT.

Wednesday, Oct. 3, 2018

2:00pm

401 Physical Sciences Building