

Tuesday, October 20th @ 2pm

Schwinger Lounge

Hosted by Prof. Thomas Dumitrescu

“QCD Wilson Lines in Chiral Lagrangian and Heavy-Light Hadrons”

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Abstract: In this talk, we will answer the question: what does a QCD Wilson line flow to in the IR chiral Lagrangian? We will first present a symmetry-based argument showing that the Wilson line cannot be completely screened in the IR. We then propose a disorder operator realization of the Wilson line in the chiral Lagrangian. Using this proposal, we can estimate the mass difference of heavy-light hadrons. The resulting value is comparable to the experiment.