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## **D meson – pion scattering on CLS 2+1 flavor ensembles**

*Tuesday, August 9, 2022 3:00 PM (20 minutes)*

We report progress on finite-volume determinations of heavy-light-meson – Goldstone boson scattering phase shifts using the Luescher method on CLS 2+1 flavor gauge field ensembles. In a first iteration we will focus on D-meson – pion scattering in the elastic scattering region at various pion masses using ensembles with three lattice spacings. We employ ensembles on the CLS quark-mass trajectory with a fixed trace of the quark-mass matrix as well as ensembles with a strange-quark mass fixed close to its physical value, which will allow us to study both the light- and the strange quark-mass dependence of positive parity heavy-light hadrons close to threshold.

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