LATTICE 21
JULY 26-30 2021, ZOOM/GATHER@MIT

Contribution ID: **156** Type: **Oral presentation**

$K\pi$ scattering at physical pion mass using distillation

Tuesday, July 27, 2021 5:30 AM (15 minutes)

Finite-volume scattering at physical pion mass is still an exploratory field in lattice QCD. This generally involves the extraction of excited states through multi-particle correlators on systems with resonances. In that context, distillation has demonstrated to be effective both as a smearing kernel and a computational tool. Motivated by the study of the smearing profile of the distillation operator, we compare stochastic and exact distillation cases for different numbers of Laplacian eigenvectors using a RBC-UKQCD $N_f = 2 + 1$ domain-wall fermion lattice with a physical pion mass.

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Session Classification: Hadron Spectroscopy and Interactions

Track Classification: Hadron Spectroscopy and Interactions