

Hadron-Hadron Interactions from $N_f = 2 + 1 + 1$ Lattice QCD: $\pi - K$ scattering length

Thursday, July 26, 2018 9:10 AM (20 minutes)

In this talk we present our recent results of the elastic scattering length in the $I_3 = \frac{3}{2}$ channel $\pi - K$ scattering. We show a new method to remove thermal effects in the interaction energy of the $\pi - K$ system, and present a careful continuum and chiral extrapolation of the scattering length.

Primary authors: Dr KOSTRZEWA, Bartosz (HISKP Uni Bonn); Dr KNIPPSCHILD, Bastian (HISKP Uni Bonn); Prof. URBACH, Carsten (HISKP Uni Bonn); Mr JOST, Christian (HISKP Uni BONN); Mr HELMES, Christopher (HISKP Uni Bonn); Dr PITTLER, Ferenc (HISKP BONN); Dr LIUMING, Liu (IMP, Lanzhou); Mr WERNER, Markus (HISKP Uni Bonn)

Presenter: Dr PITTLER, Ferenc (HISKP BONN)

Session Classification: Hadron Spectroscopy and Interactions

Track Classification: Hadron Spectroscopy and Interactions