

Scattering phase shift determinations from a two-scalar field theory and resonance parameters from QCD scattering

Thursday, 26 July 2018 08:30 (20 minutes)

The two-scalar field model of Rummukainen and Gottlieb is revisited, except the limit of large quartic couplings is not used and a Symanzik improved action is used. Isotropic lattices ranging from $16^3 \times 48$ to $53^3 \times 48$ are used, and the scattering phase shift is determined using a Lüscher analysis.

Results from $K\pi$ and $N\pi$ scattering will also be presented.

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Session Classification: Hadron Spectroscopy and Interactions

Track Classification: Hadron Spectroscopy and Interactions