

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

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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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