32nd International Symposium on Lattice Field Theory (Lattice 2014)



Contribution ID: 181

Type: Talk

Resonances in pi-K scattering

Monday, 23 June 2014 15:35 (20 minutes)

We have obtained clear signals of resonances in coupled-channel pi K - eta K scattering. Using distillation and a large basis of operators we are able to extract a precise spectrum of energy levels using the variational method. These energies are analysed using inelastic extensions of the Luescher method to obtain scattering amplitudes that clearly describe S, P and D wave resonances, corresponding to the physical K_0^(1430), the $K^{(892)}$ and the K_2^*(1430).

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Track Classification: Hadron Spectroscopy and Interactions