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A study of scattering in open charm channels

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Preliminary results from a study of DK and $D\pi$ scattering are presented using a set of anisotropic $N_f = 2 + 1$ dynamical gauge field configurations generated by the Hadron Spectrum Collaboration. The variational method with a large operator basis is used in two lattice volumes to determine the excitation spectra of open charm mesons with the relevant scattering states containing one valence charm quark. Scattering observables and resonance parameters for open charm states are also discussed.

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