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## Charm-strange mesons and $D K$ scattering

*Thursday, July 28, 2016 3:20 PM (20 minutes)*

I will discuss a recent lattice QCD investigation of  $D K$  scattering relevant for near-threshold charm-strange mesons such as the enigmatic  $D_s(2317)$ . By employing a range of techniques we extracted precise finite-volume spectra in a number of different channels. These were used to map out the energy dependence of the scattering phase shift and from the singularity structure of the scattering amplitude we determined the resonant and bound state content. I will conclude with some comments on future prospects.

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