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Resonances in π -K scattering

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We have obtained clear signals of resonances in coupled-channel π -K - η -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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