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The $Y(4230)$ as a D_1D molecule

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We investigate the nature of the $Y(4230)$ in a simultaneous fit of the $DD^*\pi$, $J/\psi\pi\pi$ and $h_c\pi\pi$ crosssections and invariant mass spectra of the subsystems. We show to what extend a single D_1D bound state can explain the non-trivial asymmetric lineshape observed in these channels. At the same time we study if the $Z_c(3900)$ observed in the $J/\psi\pi$ invariant mass distribution can be understood as a D^*D molecule or is a simple rescattering effect.

Collaboration

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