

## **$Z_c(3900)$ from Lattice QCD simulation**

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The possible exotic meson  $Z_c(3900)$ , found in  $e^+e^-$  reactions, is studied by the method of coupled-channel scattering in lattice QCD. The interactions among  $\pi J/\psi$ ,  $\rho\eta_c$  and  $\bar{D}D^*$  channels are derived from (2+1)-flavor QCD simulations at  $m_\pi = 410$ -700 MeV. The interactions are dominated by the off-diagonal  $\pi J/\psi$ - $\bar{D}D^*$  and  $\rho\eta_c$ - $\bar{D}D^*$  couplings, which indicates that the  $Z_c(3900)$  is not a usual resonance but a threshold cusp. Semi-phenomenological analyses with the coupled-channel interaction are also presented to confirm this conclusion.

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