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Study of the exotic charmonium-like states from lattice QCD

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The charmonium spectroscopy is studied from lattice QCD. An extensive set of excited states as well as the states with exotic quantum numbers are obtained. In this talk, I present and discuss the results in light of experimental observations. In particular, I will discuss the lightest hybrid meson supermultiplet that is identified in our results. Additionally, I will present a preliminary study of the coupled scattering channels $D\bar{D}^*$, $D^*\bar{D}^*$, $J/\Psi\pi$, $\eta_c\rho$, which will shed some light on the structure of the charged charmonium-like states $Z_c(3900)$ and $Z_c(4025)$.

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