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## Light hadron spectroscopy at BESIII

Wednesday, April 19, 2023 2:10 PM (30 minutes)

Using the world's largest samples of  $J/\psi$  and  $\psi(3686)$  events produced in  $e^+e^-$  annihilation, BESIII is uniquely positioned to study light hadrons in radiative and hadronic charmonium decays. In particular, exotic hadron candidates including multiquark states, hybrid mesons and glueballs can be studied in high detail. Recent highlights from the light hadron spectroscopy program, including the observation of an iso-scalar spin-exotic  $1^{-+}$  state  $\eta_1(1855)$  in  $J/\psi \to \gamma\eta\eta'$ , the observation of X(2600) in  $J/\psi \to \gamma\pi^+\pi^-\eta'$ , a study of  $\eta(1405)$  and  $\eta(1475)$  in  $J/\psi \to \gamma K_S^0 K_S^0\pi^0$  and a partial wave analysis of the decay  $J/\psi \to \gamma\eta'\eta'$ , will be presented.

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