

## Light hadron spectroscopy at BESIII

*Wednesday, 19 April 2023 14:10 (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 multi-quark 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  $J/\psi \rightarrow \gamma\eta\eta'$ , the observation of  $X(2600)$  in  $J/\psi \rightarrow \gamma\pi^+\pi^-\eta'$ , a study of  $\eta(1405)$  and  $\eta(1475)$  in  $J/\psi \rightarrow \gamma K_S^0 K_S^0 \pi^0$  and a partial wave analysis of the decay  $J/\psi \rightarrow \gamma\eta'\eta'$ , will be presented.

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