

XVth Quark Confinement and the Hadron Spectrum



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Light QCD exotics at BESIII

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Using the world's largest samples of J/ψ 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 on the light exotics searches, including observation of an iso-scalar spin-exotic 1^{--} state $\eta(1855)$ in $J/\psi \rightarrow \gamma \eta \eta'$, observation of $X(2600)$ in $J/\psi \rightarrow \gamma \pi^+ \pi^- \eta'$, observation of the anomalous shape of $X(1840)$ $J/\psi \rightarrow \gamma 3(\pi^+ \pi^-)$, and amplitude analysis of $J/\psi \rightarrow \gamma \gamma \phi$ will be presented.

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