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η' decays at BESIII

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Hadron spectroscopy is one of the most important physics goals of BESIII. Since 2009, BESIII has collected $1.3 \cdot 10^8$ J/ψ and $0.410 \cdot 10^8$ of ψ' , which are the world's largest data samples of J/ψ and ψ' from e^+e^- collision. These data are being used to make a variety of interesting and unique studies of QCD exotics (e.g. gluonic excitations and multiquarks) and light meson decay dynamics. Several recent results on light hadron spectroscopy and light hadron decays will be reported, mostly η' related, including:

- 1, amplitude analysis of $\eta' \rightarrow 3\pi$
- 2, study of $\eta' \rightarrow \gamma \pi^+ \pi^-$ decays
- 3, observation of the doubly radiative decay $\eta' \rightarrow \gamma \gamma \pi^0$

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