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Light meson decays at BESIII

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The world's largest sample of J/ψ 1.3 billion events accumulated at the BESIII detector offers a unique opportunity to study light meson decays. In recent years the BESIII experiment has made significant progresses in η/η' decays, including observation of $\eta' \rightarrow \pi^+\pi^- \mu^+\mu^-$, search for the rare decays of $\eta' \rightarrow 4\pi^0$ and $\eta' \rightarrow \text{gam} \eta$ as well as the search for CP violation in $\eta' \rightarrow \pi^+\pi^- e^+e^-$. In addition, the prospects for the light meson decays with the available 10 billion J/ψ will also be discussed.

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