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Light meson decays at BESIII

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The world's largest sample of J/ψ events accumulated at the BESIII detector offers a unique opportunity to investigate η and η' physics via two-body J/ψ radiative or hadronic decays. In recent years the BESIII experiment has made significant progresses in η/η' decays. A selection of recent highlights in light meson spectroscopy at BESIII are reviewed in this report, including the observation of $\eta' \rightarrow \pi^+\pi^-\mu^+\mu^-$, observation of the cusp effect in $\eta' \rightarrow \pi^0\pi^0\eta$, search for CP-violation in $\eta' \rightarrow \pi^+\pi^-e^+e^-$, as well as the precision Dalitz plot analysis of $\eta \rightarrow \pi^+\pi^-\pi^0$.

Collaboration

BESIII

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