

Strangeonium at BESIII

Wednesday 3 April 2024 12:00 (30 minutes)

At BESIII, the lineshapes of $e^+e^- \rightarrow \phi \eta'$, $\phi \eta$, KK , $\omega \pi^0$, $\eta \pi\pi$, $\omega \pi\pi$ are measured from 2.0 to 3.08 GeV, where resonant structures are observed in these processes. Multiple lineshapes of intermediate state are obtained by a partial wave analysis of $e^+e^- \rightarrow K^+ K^- \pi^0 \pi^0$, $K^+ K^- \pi^0$ and the structures observed provide essential input to understand the nature of $\phi(2170)$. These results provide important information for light flavor vector mesons i.e. excited ρ , ω and ϕ , for energy regions above 2 GeV.

Author: MAGGIORA, Marco (Universita e INFN Torino (IT))

Presenter: MAGGIORA, Marco (Universita e INFN Torino (IT))

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