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Light flavor vector mesons between 2 and 3 GeV at BESIII

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At BESIII, the lineshapes of $e^+e^- \rightarrow \phi\eta', \phi\eta, KK, \omega\pi^0, \eta\pi\pi$, and $\omega\pi\pi$ 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.

In-person participation

Yes

Primary author: QI, Hang (USTC)**Co-author:** BIANCHI, Fabrizio (Istituto Nazionale di Fisica Nucleare)**Presenter:** QI, Hang (USTC)**Session Classification:** Poster Session**Track Classification:** Strong interactions and Hadron Physics