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Recent spectroscopy studies at Belle

Thursday, July 20, 2023 2:00 PM (20 minutes)

The analyses of states with double cs content and the search for exotics have recently gained much attention. The Belle experiment collected roughly 1 ab^{-1} integrated luminosity data. While Belle II data-taking is in progress, we have performed a new search for exotic states and cross-section measurements with the full Belle data sets. Here we review the recent analysis of:

- a) $e^+e^- \rightarrow D_s^{(*)} + D_{sJ}^- + \text{c.c.}$ from both $Y(2S)$ decays and continuum production at 10.52 GeV , using the Belle detector at KEKB;
- b) the analysis of $e^+e^- \rightarrow \eta J/\psi + \text{c.c.}$ and search for double charmonium states;
- c) the study of $e^+e^- \rightarrow D_{s^*} + D_{sJ}(2317)$ and $e^+e^- \rightarrow D_{s^*} + D_{sJ}(2460) + \text{anything else, in the continuum}$. Born cross-sections are evaluated, and a possible confirmation of the states seen in the invariant mass system of $J/\psi\phi$ by LHCb in B decays has been investigated.

Consent

I consent to recording/broadcasting my presentation.

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