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## Recent spectroscopy studies at Belle

*Thursday, 20 July 2023 14:00 (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  $1 \text{ ab}^{-1}$  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  $10.52 \text{ GeV}$ , 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.

**Primary author:** PRENCIPE, Elisabetta (Uni. Giessen)

**Co-author:** Mr MELESHKO, Dmytro (Uni. Giessen)

**Presenter:** Mr MELESHKO, Dmytro (Uni. Giessen)

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