

# A new measurement of $X(3872) \rightarrow D^0 \bar{D}^{*0}$ at Belle

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The famous exotic hadron  $X(3872)$  (a.k.a.  $\chi_{c1}(3872)$ ) is observed not only in  $J/\psi\pi\pi$  but also in  $D^0 \bar{D}^{*0}$ , and the observed mass and width are larger in the latter decay mode with sizable uncertainties. In this presentation, we report a new measurement on

$X(3872) \rightarrow D^0 \bar{D}^{*0}$  decay using the full data of the Belle experiment and show the result of an analysis on the obtained spectrum shape with the Flatte-like model used in the  $X(3872) \rightarrow J/\psi\pi^+\pi^-$  by LHCb [PRD102(2020)092005].

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