

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].

Autore principale: TANIDA, Kiyoshi (Japan Atomic Energy Agency)

Relatore: TANIDA, Kiyoshi (Japan Atomic Energy Agency)

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