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$\gamma\gamma \rightarrow \gamma\psi(2S)$ and other studies on charmonium at Belle

Using $980fb^{-1}$ of data collected with the Belle detector, the two-photon process $\gamma\gamma \rightarrow \gamma\psi(2S)$ is studied for the first time in an effective center-of-mass energy ranging from 3.7 to 4.2 GeV. Evidence is established for a structure in the $\gamma\psi(2S)$ invariant-mass distribution at $3921.3 \pm 2.4 \pm 1.6$ MeV, and hint is found for another structure around 4000 MeV. We also report other studies related to charmonium or charmonium-like states at Belle.

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Collaboration / Activity

Belle

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