

Observation of $e^+e^- \rightarrow \chi_{c1}$ at BESIII

Saturday 20 July 2024 09:00 (15 minutes)

In electron-positron annihilation, the process $e^+e^- \rightarrow \chi_{c1}$ can occur via the production of two virtual photons or through neutral current, therefore being suppressed with respect to the normal annihilation process via one virtual photon. Using a dedicated scan sample around the χ_{c1} mass, the direct production of χ_{c1} has been established for the first time. This provides a new approach for the study of the internal nature of hadrons.

Alternate track

1. Quark and Lepton Flavour Physics

I read the instructions above

Yes

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Session Classification: Strong interactions and Hadron Physics

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