



Contribution ID: 49

Type: **Parallel**

$e^+e^- \rightarrow \Upsilon(nS)\pi^+\pi^-$ scan and observation of $e^+e^- \rightarrow \gamma \chi_{c1}$ at Belle

Tuesday, 20 August 2019 08:55 (20 minutes)

We report a new measurement of the $e^+e^- \rightarrow \Upsilon(nS)\pi^+\pi^-$ ($n = 1, 2, 3$) cross sections at energies from 10.52 to 11.02 GeV,

where we observe a new structure in the energy dependence of the cross sections and find evidence for the $\Upsilon(1S)\pi^+\pi^-$ production below the $B\bar{B}$ threshold.

Along with this we also present observation of $e^+e^- \rightarrow \gamma \chi_{c1}$ and search for $e^+e^- \rightarrow \gamma \chi_{c0}$, $\gamma \chi_{c2}$ and $\gamma \eta_c$ at Belle.

The results are based on the data sample collected by the Belle detector at the asymmetric energy e^+e^- collider KEKB.

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Session Classification: Session 1: Meson spectroscopy

Track Classification: Session 1: Meson spectroscopy