



Contribution ID: 51

Type: **Leading parallel**

Observations of new hyperons at Belle

Sunday, 18 August 2019 14:00 (25 minutes)

The spectrum of hyperon with $S=-2,-3$ are still not well known.

The large data sample accumulated by the Belle experiment at KEKB asymmetric energy e^+e^- collider provide a unique opportunity to study these hyperons.

In this presentation, we report observation and evidence of $\Xi(1620)$ and $\Xi(1690)$ in the $\Xi_c \rightarrow \Xi\pi\pi$ decay, and observation of new excited Omega- baryon decaying into Xi K produced from bottomonium decay.

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Session Classification: Session 2: Baryon spectroscopy

Track Classification: Session 2: Baryon spectroscopy