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Recent XYZ studies at BESIII

Wednesday 8 September 2021 14:00 (20 minutes)

In this talk recent XYZ results at BESIII will be reviewed, that includes: Observation of a near-threshold enhancement in the $\Lambda \Lambda\bar{\Lambda}$ mass spectrum from $e^+ e^- \rightarrow \phi \Lambda \Lambda\bar{\Lambda}$ at the center-of-mass energies from 3.51 to 4.60 GeV; Observation of $e^+ e^- \rightarrow \eta \psi(2S)$ at the center-of-mass energies from 4.236 to 4.600 GeV; Cross section measurement of $e^+ e^- \rightarrow p \bar{p} \eta$ and $e^+ e^- \rightarrow p \bar{p} \omega$ at center-of-mass energies between 3.773 GeV and 4.6 GeV; Search for reaction $e^+ e^- \rightarrow \chi_{cJ} \pi^+ \pi^-$ and a charmonium-like structure decaying to $\chi_{cJ} \pi^+ \pi^-$ between 4.18 and 4.60 GeV; Search for the reaction channel $e^+ e^- \rightarrow \eta_c \eta \pi^+ \pi^-$ at center-of-mass energies from 4.23 to 4.60 GeV.

Primary author: IMOEHL, William (Indiana University)

Presenter: IMOEHL, William (Indiana University)

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