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Hyperon pair production at BESIII

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Hyperons offer a distinctive approach for studying the strong interaction, and their production in e^+e^- collisions constitutes a novel and feasible means to acquire information for comprehending hyperon structure, internal dynamics, and even the nature of charmonium(-like) states. With the unique datasets obtained by the BESIII experiment, the recent findings regarding the hyperon pair production in e^+e^- collisions are presented, such as $e^+e^- \to \Lambda\bar{\Lambda}$, $\Sigma^0\bar{\Sigma}^0$, $\Sigma^+\bar{\Sigma}^-$, $\Xi^0\bar{\Xi}^0$, and $\Xi^-\bar{\Xi}^+$, and so forth. These results provide new viewpoints on hadron production in the hyperson final states, contributing to our understanding of hadron dynamics in this energy regime.

Primary authors: ZHANG, Ruoyu (Lanzhou University); WANG, Xiongfei

Presenter: ZHANG, Ruoyu (Lanzhou University)

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