

Observation of spin polarization in $e^+e^- \rightarrow \Lambda\bar{\Lambda}$ at BESIII

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The BESIII collaboration here report the first observation of polarized Λ and $\bar{\Lambda}$ hyperons produced in two different processes: i) the resonant $e^+e^- \rightarrow J/\psi \rightarrow \Lambda\bar{\Lambda}$, using a data sample of 1.31×10^9 J/ψ events and ii) the non-resonant $e^+e^- \rightarrow \gamma^* \rightarrow \Lambda\bar{\Lambda}$, using a 66.9 pb^{-1} data sample collected at $\sqrt{s} = 2.396 \text{ GeV}$.

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