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Study of Hyperon and Antihyperon Production in Deep Inelastic Muon Scattering

The yields of heavy hyperons and antihyperons have been studied in deep inelastic scattering at the COM-PASS experiment at CERN.

The relative yields of $\Sigma(1385)^+$, $\Sigma(1385)^-$, $\bar{\Sigma}(1385)^+$, $\Xi(1321)^-$, and $\bar{\Xi}(1321)^+$ hyperons decaying into \Lambda(\bar{\Lambda})\piweremeasured. The ratios of \Sigma \pm/\Lambda, \bar{\Sigma} \pm/\bar{\Lambda}, \Xi^{-}/\Lambda}, \Xi^{-}/\Lambda \Xi^{-} \xi^{-} \Lambda \Xi^{-} \xi^{-}/\Lambda \xi^{-} \xi^{-}/\Lambda \x

The measured yields were used to tune the parameters of the LEPTO generator simulating the DIS events.

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