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Longitudinal Spin Transfer to Λ and $\bar{\Lambda}$ Hyperons Produced in Polarized Proton-Proton Collisions at $\sqrt{s} = 200$ GeV RAMON CENDEJAS, UCLA/LBL — The longitudinal spin transfer, D_{LL} , of Λ and $\bar{\Lambda}$ hyperons in longitudinally polarized proton-proton collisions is sensitive to strange quark and anti-quark polarization in the polarized proton as well as to polarized fragmentation. The STAR collaboration previously published D_{LL} from a data sample obtained in 2005 that corresponds to an integrated luminosity of 2 pb^{-1} with 50% beam polarization. The D_{LL} results from the data were compared to the D_{LL} model calculations. A considerably larger data sample corresponding to 25 pb^{-1} with beam polarization of 57% was obtained in 2009 using an upgraded instrument. The analysis of these data is in progress and is anticipated to considerably improve the precision of the D_{LL} measurements. The status of the analysis will be discussed.

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