## Abstract Submitted for the CAL11 Meeting of The American Physical Society

Longitudinal Spin Transfer to  $\Lambda$  and  $\bar{\Lambda}$  Hyperons Produced in Polarized Proton-Proton Collisions at  $\sqrt{s}=200$  GeV RAMON CENDEJAS, UCLA/LBL, STAR COLLABORATION — The longitudinal spin transfer,  $D_{LL}$ , of  $\Lambda$  and  $\bar{\Lambda}$  hyperons in longitudinally polarized proton-proton collisions is sensitive to the polarization of strange quarks and anti-quarks in the polarized proton, as well as polarized fragmentation. The STAR collaboration previously reported  $D_{LL}$  from a data sample obtained in 2005 that corresponds to an integrated luminosity of 2  $pb^{-1}$  with 50% beam polarization. Considerably larger data samples corresponding to 6.5  $pb^{-1}$  and 25  $pb^{-1}$  with beam polarization of 57% were obtained in 2006 and 2009. The analysis of these data is in progress and is anticipated to widen the kinematic range and considerably improve the precision of the  $D_{LL}$  measurements. The status of the analysis will be discussed.

Ramon Cendejas UCLA/LBL

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