

Abstract Submitted  
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**Theory of nonlinear transport in separated Landau levels of two-dimensional electron systems**<sup>1</sup> M. KHODAS, University of Iowa, H.-S. CHIANG, A.T. HATKE, M.A. ZUDOV, University of Minnesota, L.N. PFEIFFER, K.W. WEST, Princeton University — Recent experiments have shown that the differential magnetoresistivity of a high mobility two-dimensional electron system (2DES) is strongly suppressed under applied dc bias. This phenomenon is most pronounced when the Landau level width becomes smaller than the cyclotron energy. Using the quantum kinetics approach we calculate the characteristic current responsible for the suppression and compare the results to the experimental data obtained on a high mobility 2DES at low temperatures.

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