

Abstract Submitted
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Nonlinear transport in very high Landau levels of a high mobility quantum Hall systems¹ M.A. ZUDOV, H.-S. CHIANG, A.T. HATKE, University of Minnesota, M. KHODAS, University of Iowa, L.N. PFEIFFER, K.W. WEST, Princeton University — When a dc current is passed through a high-mobility two-dimensional electron system its differential resistivity exhibits oscillations with the applied magnetic field. The minima of these oscillations can extend all the way to zero leading to states with zero-differential resistance. This talk will discuss our recent experiments studying the evolution of the differential resistivity with temperature and with perpendicular and in-plane magnetic fields.

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Michael Zudov
University of Minnesota

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