

Abstract Submitted
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Ahronov-Bohm oscillations in a GaAs 2D hole system BABUR HABIB, EMANUEL TUTUC, MANSOUR SHAYEGAN, Princeton University — We have grown shallow 2D hole samples in GaAs for implementing mesoscopic structures via local anodic oxidation using an AFM. In this talk we present our results of a ring device which shows clear Ahronov-Bohm oscillations. The amplitude of the resistance oscillations are about 10% of the ring resistance, the strongest seen in a 2D hole system to date.

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