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Nonlinear response of magnetoplasmon resonance ANTHONY HATKE, MICHAEL ZUDOV, School of Physics and Astronomy, University of Minnesota, Minneapolis, MN 55455, USA, MICHAEL MANFRA, Department of Physics, West Lafayette, IN 47907 — Magnetoplasmon resonances have been observed in microwave photoresistance of Hall bar-shaped two-dimensional electron systems more than two decades ago. This talk will report on such a resonance in a very high mobility two-dimensional electron gas where it appears as a distinct photoresistivity peak superimposed on a microwave-induced zero-resistance state. In particular, we will discuss the response of this peak to dc electric field. A portion of this work was performed at the National High Magnetic Field Laboratory which is supported by NSF Cooperative Agreement No. DMR-0654118, by the State of Florida, and the DOE. The work at Minnesota was supported by DOE Grant No. DE-SC002567 and NSF Grant No. DMR-0548014. The work at Purdue was supported by DOE grant de-sc0006671.

- Prefer Oral Session
 Prefer Poster Session

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