

Abstract Submitted  
for the MAR17 Meeting of  
The American Physical Society

**Linear Magnetoresistance Near Critical Doping In  $La_{2-x}Sr_xCuO_4$** <sup>1</sup>

XIUJUN LIAN, National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL, USA., BRAD RAMSHAW, JONATHAN BETTS, National High Magnetic Field Laboratory, Los Alamos National Laboratory, Los Alamos, NM, USA., SHIMPEI ONO, Central Research Institute of Electric Power Industry, Ko-mae, Tokyo 201-8511, Japan., ROSS MCDONALD, National High Magnetic Field Laboratory, Los Alamos National Laboratory, Los Alamos, NM, USA., GREGORY BOEBINGER, ARKADY SHEKHTER, National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL, USA. — The strange metallic state in high-temperature superconductors is characterized by anomalous transport behavior, such as linear-in-temperature resistivity over a broad temperature range. It has recently been shown that anomalous dynamics near critical doping can be probed by strong magnetic fields. We report resistivity measurements at high magnetic fields in micro-structured  $La_{2-x}Sr_xCuO_4$  single crystals in the doping range near critical doping. In particular, we discuss the angular dependence of the magnetoresistance near quantum critical point.

<sup>1</sup>The NHMFL is supported by NSF/DMR-1157490.

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Date submitted: 29 Nov 2016

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