Abstract Submitted
for the MAR10 Meeting of
The American Physical Society

Superconducting transition in narrow aluminum strips[1] SOO HYUNG LEE, ATIKUR RAHMAN, PETER WILDFEUER, NINA MARKOVIC, Johns Hopkins University — We have studied the superconducting transition in highly conducting granular aluminum strips. The samples were fabricated using electron beam lithography and thermal evaporation. Measurements of resistance and voltage noise as a function of temperature, current and magnetic field show an evolution of different dynamic regimes as the width of the samples is decreased and they become quasi-one dimensional.

[1]This work was supported in part by the National Science Foundation under Grants DMR -0547834 (CAREER) and DMR-0520491(MRSEC) and Alfred P. Sloan Foundation BR-4380.

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Date submitted: 18 Nov 2009 Electronic form version 1.4