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**Márton Balázs** and **Timo Seppäläinen\***, Mathematics Department, University of Wisconsin-Madison, Madison, WI 53706-1388. *Variance bounds for the current in the asymmetric simple exclusion process*. Preliminary report.

This talk discusses bounds on the variance of the current across the characteristic in the asymmetric simple exclusion process. The approach utilizes couplings that compare processes started at different densities and bounds on second-class particles. (Received August 10, 2006)