Abstract Submitted
for the MAR05 Meeting of
The American Physical Society

Voltage and Viscosity Dependant DNA Translocation Through Solid State Nanopores JAMES UPLINGER, BRIAN THOMAS, DANIEL FOLOGEA, JIALI LI, University of Arkansas — The effects of different voltages and solution viscosities on 3 kbp double stranded DNA translocating through 2 to 12 nanometer silicon nitride nanopores are investigated. The translocation time of an event has been found to be inversely proportional to the driving voltage, and to be increased nonlinearly with increased glycerol concentration.

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Date submitted: 07 Feb 2005

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