Abstract Submitted for the MAR07 Meeting of The American Physical Society

## From Brownian motor to Brownian refrigerator RYOICHI KAWAI,

University of Alabama at Birmingham, CHRISTIAN VAN DEN BROECK, University of Hasselt — Onsager symmetry implies that a Brownian motor, driven by a temperature gradient, will also perform a refrigerator function upon loading. We analytically calculate the corresponding heat flux for an exactly solvable microscopic model and compare it with molecular dynamics simulations.

Ryoichi Kawai University of Alabama at Birmingham

Date submitted: 20 Nov 2006

Electronic form version 1.4