Abstract Submitted
for the MAR17 Meeting of
The American Physical Society

Feedback trap using optical force YONGGUN JUN, Department of Physics, National Central University, Taiwan, HYUK KYU PAK, Department of Physics, UNIST, Korea — Recently, the feedback trap using electrophoretic force (ABEL trap) has been used in the experimental study of non-equilibrium thermodynamics such as Landauer's erasure principle. This trap can trap and manipulate a small particle in solution by canceling the Brownian fluctuations. Here, we propose a simple way to control a bead using optical force with feedback and show the dynamics of a single particle in the virtual potential.

Yonggun Jun
Department of Physics, National Central University, Taiwan

Date submitted: 10 Nov 2016 Electronic form version 1.4