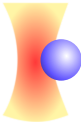


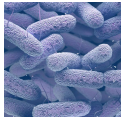
**adiabatic quantum computing:**  
 maintaining ground state while  
 driving a quantum system

Demirplak, Rice, JPCA (2003)  
 Berry, J. Phys. A (2009)



**Brownian motion of  
 bead in optical trap:**  
 maintaining instantaneous  
 equilibrium as trap changes

Martinez *et al* Nature Physics (2016)  
 Patra, Jarzynski, New. J. Phys. (2017)



**Possible biological  
 applications:**  
 population genetics  
 molecular chaperones  
 force spectroscopy