Abstract Submitted
for the MAR08 Meeting of
The American Physical Society

Adsorption kinetics of diatomic molecules on carbon nanotube bundles JARED BURDE, MERCEDES CALBI, Dep. of Physics, Southern Illinois Univ. Carbondale — A Kinetic Monte Carlo algorithm is used to explore the kinetics of adsorption of diatomic adsorbates on one-dimensional chains of sites. In particular, we monitor the evolution of the orientational configuration of the adsorbate as equilibrium is being reached at different values of temperature and chemical potential. We also analyze the dependence of the orientational evolution of the phases on the interactions between the molecules and on the presence of adsorption sites with different energies.

Maria Calbi
Dep. of Physics, Southern Illinois Univ. Carbondale

Date submitted: 27 Nov 2007 Electronic form version 1.4