

Abstract Submitted
for the MAR09 Meeting of
The American Physical Society

Monolayer solids of short (perfluoro)alkanes on graphite L.W. BRUCH, University of Wisconsin-Madison — Calculations are reported for the relative stability of monolayer solid lattices on graphite for C_2H_6 , C_3H_8 , C_2F_6 , and C_3F_8 . Triangular, centered rectangular and two-sublattice herringbone lattices are treated. The calculations use all-atom (AA) models and are based on non-bonding interactions formulated for three dimensional dense phases of alkanes and perfluoroalkanes.

L. W. Bruch
University of Wisconsin-Madison

Date submitted: 19 Nov 2008

Electronic form version 1.4