Abstract Submitted
for the MAR05 Meeting of
The American Physical Society

Lipid Films, Magnetic Lipid Films, and Their Mechanical Properties[1] ALOK SAHGAL, KEZHENG CHEN, WILFRED NGWA, WEILI LUO, Department of Physics, University of Central Florida, Orlando, FL 32816 — Three techniques were used to produce thin lipid films and magnetic-nanoparticle-embedded lipid films on flat substrates: spin-coating, capillary, and natural-dry methods. The morphology and the homogeneity of these films were analyzed by Atomic Force Microscopy. The local mechanical properties of these films were studied and will be discussed.

[1]This work is supported by NSF NIRT # 0103587.

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Date submitted: 20 Mar 2013 Electronic form version 1.4