

Abstract Submitted  
for the MAR13 Meeting of  
The American Physical Society

**Computer Automated Contact Angle Measurement for Surface Plasmon Resonance** ARIEL STATMAN, ADELE POYNOR, Allegheny College  
— When water meets an extended hydrophobic surface, an ultra-thin, low density depletion layer is expected at the interface. Exactly how the depletion layer changes with change in hydrophobicity is still an open question. When studying the interaction between water and a hydrophobic surface, we need to be able to test the hydrophobicity of a self-assembled monolayer, and its stability over time. To do this, we take a series of images over time and determine whether the contact angle changes.

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Date submitted: 05 Nov 2012

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