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The Role of Contact Angle on the Depletion Layer when at the Interface Between Water and a Hydrophobic Surface ADELE POYNOR, SHANNON PETERSEN, BROOKE OLLANDER, Allegheny College — By definition hydrophobic substances hate water. Water placed on a hydrophobic surface will form a drop in order to minimize its contact area. What happens when water is forced into contact with a hydrophobic surface? One theory is that an ultra-thin low-density depletion layer forms near the surface. We investigate the role of contact angle on depletion layer formation using the surface sensitive technique of Surface Plasmon Resonance.

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