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Adsorption of Gold Nanoparticles from a Crowded Solution on Solid/Liquid Interface SHARMINE ALAM, INDERMEET KOHLI, BHAVDEEP PATEL, ASHIS MUKHOPADHYAY, Wayne State University — Adsorption of nanoparticles at solid-liquid interface is of great importance in the field of colloidal science and biophysics. Protein adsorption is one of the most significant processes and can be mimicked by colloidal systems. We will present results of our studies of the kinetics of adsorption of gold nanoparticles from a crowded polyvinyl alcohol (PVA) polymer solution on a solid/liquid interface using phase-modulated ellipsometry and Fluctuation Correlation Spectroscopy (FCS). The experimental system mimics many biological processes, where the adsorption of particles or proteins takes place in the presence of many other components.

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