

Abstract Submitted
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Oriental structure of water molecules near the solid/water interface probed with Second Harmonic Generation¹ PENG WAN, HARRY TOM, Department of Physics, University of California, Riverside — A new experimental method was developed especially to probe the Stern Layer effective capacitance and the interfacial depth of water allowing us to probe the accuracy of the Gouy-Chapman Stern model. This is done using Surface Second Harmonic Generation (SHG) performed at the silica/water interface. By varying the pH, salt concentration and temperature of the aqueous solutions, we gain insight into the molecular orientational structure in the interfacial region.

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