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**Excess Electrons in Water Clusters** YING LI, School of Physics, Georgia Institute of Technology, ROBERT BARNETT, School of Physics, Georgia Institute of Technology, UZI LANDMAN, School of Physics, Georgia Institute of Technology — Excess electrons in water systems are always a research topic of interest. In this talk, we will discuss the behavior and formation of the excess electrons in water cluster using DFT ab-initio simulations with a combination of quantum mechanics and molecular mechanics. System size is chosen so that the excess electrons will form a bound state rather than a surface state. Measurements will be performed to test the stability of the electron structure.

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