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Collective Behavior of Water on Platinum DAVID LIMMER, University of California, Berkeley, ADAM WILLARD, University of Texas, Austin, DAVID CHANDLER, University of California, Berkeley — We present the results of molecular dynamics simulations of a interface between water and a platinum electrode. Using importance sampling techniques we probe a variety of collective phenomenon that emerge at the interface. We consider platinum electrodes with two different geometries and discuss how different behaviors result from a competition between geometrical frustration and favorable local interactions.

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