Meeting: 999, Nashville, Tennessee, SS 10A, Special Session on Geometry of Hyperbolic Manifolds

999-57-163 Xiaobo Liu* (xiaoboli@usc.edu), USC Department of Mathematics, Kaprielian Hall, Room 108, 3620 Vermont Avenue, Los Angeles, CA 90089. Representations of the quantum Teichmüller space. Preliminary report.

In joint work with Francis Bonahon, we investigated representations of the quantum Teichmüller space of a surface, and used this to construct invariants of surface diffeomorphisms. We will explain how to compute these invariants. (Received August 21, 2004)