Meeting: 1003, Atlanta, Georgia, SS 10A, AMS Special Session on Dynamics of Mapping Class Groups on Moduli Spaces, I

1003-57-909 Charles Frohman* (frohman@math.uiowa.edu), Department of Mathematics, The University of Iowa, Iowa City, IA 52242, and Kathy Zhong (kzhong@csus.edu), The Department of Mathematics, Sacramento Sate University, Sacramento, CA, 95819. Integrating on the SU(3)-character variety of a surface group.

We will give an explicit state sum formula for integrating a function over the SU(3)-character variety of a surface group against the natural symplectic measure on the character variety. We use this formula to investigate the action of the mapping class group on the character variety. (Received September 30, 2004)