1046-37-1099 **Fang Wang*** (wangfang@math.northwestern.edu), Department of Mathematics, Northwestern University, 2033 Sheridan Road, Evanston, IL 60201. *Minimal Measures for Lagrangian Systems on 2-Manifold.* Preliminary report.

We present our results on action-minimizing measures for geodesic flows on compact surfaces with genus $g > 1$. We show that for each rational rotation vector h, there is an action-minimizing measure associated to h, which is supported on a finite set of closed orbits. Our work extend Bangert's results on minimal geodesics on torus to higher-genus surfaces. (Received September 14, 2008)