

1014-30-1542 **J'Lee Wyatt Bumpus*** (jlee_wb@yahoo.com), Department of Mathematics and Statistics,
Texas Tech University, MS 1042, Lubbock, TX 79409, and **G. Brock Williams**. *Riemann Surface
Deformations*. Preliminary report.

Transformations on points in Teichmüller space have been investigated via various actions. The complex earthquake maps developed by Thurston and McMullen as well as conformal weldings serve as two such examples. These methods involve cutting a Riemann surface along a geodesic and then applying these different actions. We describe an alternative deformation using quasisymmetric sewings that does not limit us to cutting along geodesics. In particular, we work with these deformations on the Teichmüller space of compact, Euclidean Riemann surfaces. We create our deformations by removing a disc from the torus and sewing it back in by the application of a quasiconformal map. (Received September 28, 2005)