## 1125-VU-2660 Cary Malkiewich\* (cmalkiew@illinois.edu). The Reidemeister trace in pictures.

We give a brief pictorial exposition of joint work with John Lind, in which we build a geometric model for the "refined Reidemeister trace." When  $E \to B$  is a smooth fiber bundle, this gives a stable map between the spaces of free loops  $LB \to LE$ . If time permits, we will sketch the generalizations and their applications, which range from dynamics on compact manifolds to algebraic K-theory. (Received September 20, 2016)