

1079-30-100

**David M Freeman\*** ([david.freeman@uc.edu](mailto:david.freeman@uc.edu)), University of Cincinnati Blue Ash College, 9555 Plainfield Rd, Blue Ash, OH 45236. *Transitive bilipschitz group actions and bilipschitz parameterizations*. Preliminary report.

This talk will examine the relationship between transitive bilipschitz group actions and bilipschitz parameterizations of metric spaces. In particular, if an Ahlfors 2-regular metric space  $X$  that is quasisymmetrically homeomorphic to  $\mathbb{R}^2$  admits a transitive uniformly bilipschitz group action, then the space can be parametrized by a bilipschitz homeomorphism  $f : \mathbb{R}^2 \rightarrow X$ . The possibility of similar results in higher dimensions will also be discussed, time permitting. The talk will also focus on the equivalence of bilipschitz and so-called *quasihomogeneous* parameterizations in certain settings. (Received December 27, 2011)