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

1003-37-1722   **Moon Duchin*** (`mduchin@math.uchicago.edu`). *An Ergodic Theorem for Random Walks on the Mapping Class Group .*

We show that almost all random walk trajectories on the mapping class group are well-approximable by Teichmuller geodesic rays. This adapts a similar result of Karlsson and Margulis (1999) – a version of the Oseledec multiplicative ergodic theorem – which they proved for Busemann nonpositively curved spaces. In place of this curvature condition (which fails for Teichmuller space), we prove a new comparison-triangle result for the Teichmuller metric.   (Received October 18, 2004)