

1117-37-149

**W. Patrick Hooper\*** ([whooper@ccny.cuny.edu](mailto:whooper@ccny.cuny.edu)), 160 Convent Ave, New York, NY 10031, and  
**Rodrigo Treviño.** *Random covers of translation surfaces.*

An infinite genus surface has a fundamental group isomorphic to a countably generated free group. This can be used to define a random degree  $d$  cover of such a surface. This construction will be applied to translation surfaces (surfaces locally modeled on the plane with a geodesic flow-invariant notion of direction). I will explore how passing to a random degree  $d$  cover interacts with the ergodic properties of the geodesic flow on an infinite genus translation surface. This discusses work in appearing in arXiv:1503.00389. (Received January 11, 2016)