

1147-37-539

**Charles Christopher Johnson\*** (ccjohnson@gmail.com). *A family of non-singular transformations, and an application to infinite-area translation surfaces.* Preliminary report.

Ergodic theoretic questions can be asked about maps which do not preserve a measure, but instead only a measure class. In this talk I will describe a particular family of such transformations and discuss their ergodic properties. This family will include some special affine interval exchanges, and by considering a discrete version of the Maharam extension these maps give rise to infinite interval exchanges which can be used to understand study the dynamics of flows on translation surfaces of infinite area. (Received January 25, 2019)