

# Rotated Odometers

**Olga Lukina**

*University of Vienna, Austria*

*olga.lukina@univie.ac.at*

We consider infinite interval exchange transformations (IETs) obtained as compositions of finite IETs and the von Neumann-Kakutani map, called rotated odometers. Such systems arise as first return maps of rational flows on translation surfaces of infinite genus with finite number of ends. Although very simple to define, rotated odometers exhibit surprisingly diverse behavior. We study the dynamical and ergodic properties of rotated odometers by means of an associated Bratteli-Vershik system and prove a few classification results about the factors of the unique aperiodic minimal subsystem of a rotated odometer. This is joint work with Henk Bruin.