

1176-20-314

Spencer Dowdall, Matthew Gentry Durham* (mdurham@ucr.edu), **Christopher Leininger** and **Alessandro Sisto**. *Geometry of extensions of lattice Veech groups*.

Lattice Veech groups are especially nice punctured surface subgroups of the mapping class group arising from Teichmüller geometry. While not convex cocompact subgroups in the sense of Farb-Mosher, they satisfy several related properties, making them ideal candidates for being "geometrically finite".

In this talk, I will discuss the geometry of the surface group extension associated to a lattice Veech group. The main results are that they are hierarchically hyperbolic groups and satisfy a strong version of quasi-isometric rigidity, thereby generalizing the convex cocompact case.

This is based on joint work with Spencer Dowdall, Christopher Leininger, and Alessandro Sisto. (Received January 25, 2022)