

Geometry, Groups and Dynamics/GEAR Seminar
(held at the Illinois hub of GEAR)

12:00 pm, Thursday, October 26, 2017, 243 Altgeld Hall

Jayadev Athreya (University of Washington)

Siegel-Veech transforms are in L^2

Let H denote a connected component of a stratum of translation surfaces. We show that the Siegel-Veech transform of a bounded compactly supported function on \mathbb{R}^2 is in $L^2(H, \mu)$, where μ is the Masur-Veech measure on H , and give applications to bounding error terms for counting problems for saddle connections. We will review classical results in the Geometry of Numbers which anticipate this result. This is joint work with Yitwah Cheung and Howard Masur.

[Video](#)