

Claire BURRIN, University of Zurich, Switzerland

Title: Pairs of saddle connections

Abstract: Starting with Gauss, there is a collection of classical problems at the intersection of number theory and analysis that concern the distribution of lattice points in space. In this talk I will explain how counting saddle connections on Veech surfaces stands as a natural 'higher genus' analogue to the classical primitive Gauss circle problem. I will then discuss work with Samantha Fairchild and Jon Chaika on pairs of saddle connections.