

THE CHAMBER FLOW FOR BRUHAT-TITS BUILDINGS

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ABSTRACT

The chamber flow for a Bruhat-Tits building is an analogue of the Weyl chamber flow for Riemannian symmetric spaces which in turn is a higher rank generalization of the geodesic flow on rank one symmetric spaces. It generalizes the geodesic flow on Bruhat-Tits trees and has a number of properties analogous to those well-studied flows. In this talk I will explain the chamber flow as the action of an abelian p -adic group in parallel with the Weyl chamber flow realized as action of an abelian Lie group. Then I will report on some work in progress towards quantum-classical spectral correspondences for chamber flows in the spirit of Flaminio-Forni and Dyatlov-Faure-Guillarmou (and more recent follow-up work).