Unique ergodicity of quasi-invariant measures for time-one maps of hyperbolic flows

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We consider the horocyclic flow corresponding to a topologically mixing Anosov flow (but not necessarily a geodesic flow) and establish the uniqueness of transverse quasi-invariant measures with Hölder Jacobians. This generalizes the well known equidistribution result of horocycles due to Furstenberg.

The method of the proof relies on a precise characterization of the equilibrium states of the hyperbolic system, in particular the existence of a family of Radon measures on the horocyclic foliation such that any probability (invariant or not) having conditionals given by this family, necessarily is the unique equilibrium state of the system.

Joint work with Federico Rodriguez Hertz.