



Leafwise equicontinuity and ergodic implications

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Abstract: In this talk we will address, and present substantial progresses on, some open problems in the area of smooth ergodic theory, concerning the occurrence of strong ergodic properties for partially hyperbolic systems with some type of controlled behavior along its center direction.

The main goal is to present recent new techniques to approach these problems by finding a system of leafwise invariant metrics associated to the dynamics and then, applying recent results on the ergodic rigidity of weakly leafwise rigid actions.