Workshop on Submanifold Theory and Geometric Analysis

UFSCar, São Carlos, Brazil, August 05 – 09, 2019

Friday- 9h - 9:40h -Auditório do DM

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Meromorphic limits of automorphisms

Abstract. Let X be a compact complex manifold in the Fujiki class C. We study the compactification of the connected component of $Aut(X)$ given by its closure in Barlet cycle space. The boundary points give rise to non-dominant meromorphic self-maps of X. Moreover convergence in cycle space yields convergence of the corresponding meromorphic maps. There are analogous compactifications for reductive subgroups acting trivially on $AlbX$. If X is Kähler, these compactifications are projective. Finally we give applications to the action of $Aut(X)$ on the set of probability measures on X. In particular we obtain an extension of Furstenberg lemma to manifolds in the class C. (This is a joint work with Prof. Alessandro Ghigi of University of Pavia).

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