

WORKSHOP ON SUBMANIFOLD THEORY AND GEOMETRIC ANALYSIS

UFSCAR, SÃO CARLOS, BRAZIL, AUGUST 05 – 09, 2019

WEDNESDAY- 14h - 14:50h -AUDITÓRIO DO DM

Paolo Piccione

(USP - Brazil)

Collapse of compact flat manifolds and the Yamabe problem

ABSTRACT. The study of solutions for the Yamabe problem in certain noncompact manifolds leads naturally to the question of existence of collapse for compact flat manifolds. In this talk I will present some recent results, obtained in collaboration with R. Bettiol (CUNY), A. Derdzinski (OSU) and R. Mossa (USP), on the moduli space of flat metrics of a compact manifold, and its boundary. In particular, I will discuss the flat collapse along a holonomy invariant subspace, and describe it in terms of the associated parallel flat foliation.

Support:



Organizers:

