

UFSCar

DEPARTAMENTO DE MATEMÁTICA

COLÓQUIO

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Falará sobre:

Polar Actions on Hadamard Manifolds

Resumo. An ongoing program in Riemannian geometry is the study of nonnegatively curved manifolds in the presence of an isometric action of one or the other kind. Typically one asks the action to be of low cohomogeneity. Another case is if the action is polar; an isometric action of a Lie group G on a Riemannian manifold is polar, if there is a complete submanifold that meets any orbit and is orthogonal to them at each point of intersection. A lot is known about these actions on manifolds of nonnegative curvature. In this talk we discuss the situation for manifolds with curvature of the opposite sign. We explain the structural differences to the case of nonnegative curvature and then give a global description of polar actions on simply-connected, complete manifolds of nonpositive curvature up to equivariant diffeomorphism.

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