

Genet-Roussel Seminar  
\*\*\*\*\*Special Edition\*\*\*\*\*  
26/04/2013 - ICMC/USP

Prof. Dr. Wolfgang Ziller (UPenn). *Geometry and topology of manifolds admitting polar actions*

Friday, 26/04/2013 at 14h00  
Auditório Professor Fernão Stella de Rodrigues Germano (ICMC 6-001)



Group actions are usually far from being determined by their isotropy groups, an exception being the case where the quotient is one dimensional. We give a recipe for constructing new manifolds from potential isotropy groups for so called polar actions. They are defined as a group action for which a submanifold exists intersecting all orbits orthogonally. For example all toric Hamiltonian actions are polar. We give many other examples often defining manifolds that are not easily identifiable as "known" spaces.

All Genet-Roussel Seminar material (video lectures, lecture notes, upcoming talks, etc.) is available at <http://www.icmc.usp.br/~grossi>