Morphisms between rational homogeneous manifolds

Abstract:
The projective space, and more generally the homogenous varieties of Picard number one, are shown to be "final" objects for surjective non constant morphisms onto smooth manifolds. This is showing that the existence of morphisms between such manifolds imposes conditions both on the target and the domain of the morphism. In this talk we will present how some of these conditions look and some applications and open problems on them.

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