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Andrew Michael Sanders* (sanderandy@gmail.com). *The geometry of locally homogeneous complex manifolds.*

Given an Anosov subgroup Γ of a complex, semisimple Lie group G , the work of Guichard-Wienhard and Kapovich-Leeb-Porti furnishes cocompact domains of proper discontinuity in various flag varieties associated to G . The quotients of these domains give rise to locally homogeneous complex manifolds modelled on the flag variety. In this talk, we will discuss some features of the topology and geometry of these locally homogeneous manifolds. In particular, we will compute the cohomology ring and Picard group for a number of important examples. This is joint work with David Dumas. (Received September 06, 2016)