

1068-20-49

Igor Belegradek* (ib@math.gatech.edu) and **Chris Hruska**. *Relatively hyperbolic hyperplane complements*.

The talk deals with a family of noncompact aspherical manifolds arising from Riemannian geometry, e.g. the family contains all known examples of complete finite volume Riemannian manifolds of bounded negative sectional curvature. Here "bounded negative" means that the curvature is a bounded negative function, which is less restrictive than assuming "pinched negative curvature". The main result gives a criterion under which the manifolds have relatively hyperbolic fundamental groups, and moreover, the criterion supplies enough control on the peripheral subgroups to yield wealth of information about the fundamental groups. (Received January 07, 2011)