

Bounded cohomology of classifying spaces for families of subgroups

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Abstract: Classifying spaces for families are important objects in equivariant topology and geometric group theory, whose cohomology is well-studied. I will introduce their bounded cohomology, that can be viewed as a relative bounded cohomology theory for groups with respect to a family of subgroups. Analogous to Johnson's characterization of amenability, this new theory characterizes co-amenability. Analogous to Mineyev's characterization of hyperbolicity, our theory characterizes relative hyperbolicity, which I shall mention only briefly.

Time: 16:00 (German time)