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Stable Finiteness Properties of Infinite Discrete Groups

In this talk, I will discuss joint work with Dieter Degrijse (National University at Galway, Ireland), and Irakli Patchkoria (University of Bonn, Germany) concerning the relation between several cohomological dimensions for an infinite group. The talk includes methods of equivariant homotopy theory for infinite discrete groups. An important corollary of the results is a geometric interpretation for the virtual cohomological dimension.