



Algebra and Number Theory Seminar

Title: Virtual rational Betti numbers of soluble groups of homological type FP_n

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Date: Thu 7th November 2019 at 2:00PM

Location: Seminar Room SCN 1.25

Abstract: The virtual rational Betti numbers of a finitely generated group studies the growth of Betti numbers of the group as one follows passage to subgroups of finite index. More precisely, the n -th virtual rational Betti number of a finitely generated group G is defined as

$$vb_n(G) := \sup_{M \in A_G} \dim H_n(M, \mathbb{Q}),$$

where A_G is the set of all subgroups of finite index in G . In this talk we will discuss the virtual rational Betti numbers of nilpotent-by-abelian groups that satisfy certain finiteness condition. Note that a group G is called nilpotent-by-abelian if G has a nilpotent normal subgroup N such that G/N is abelian. These groups are solvable.

https://maths.ucd.ie/kazim_b/UCD_ANT_Seminar.html