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Full residual finiteness growths of nilpotent groups

Full residual finiteness growth of a finitely generated group measures how efficiently word-metric n -balls inject into finite quotients. The full residual finiteness growth of any finitely generated nilpotent group is determined precisely by a single monomial. We indicate our proof through several examples and present a result that characterizes nilpotent groups for which this growth matches the group's word growth. This talk covers joint work with Daniel Studenmund.