

1071-20-224 **Matthias Neumann-Brosig*** (m.neumann-brosig@tu-bs.de), Institut Computational Mathematics, TU Braunschweig, 38106 Braunschweig, Germany, and **Gerhard Rosenberger**.
Homological finiteness conditions of hyperbolic groups.

Hyperbolic groups have been studied in various fields in mathematics. They appear in contexts as diverse as geometric group theory, function theory (as Fuchsian groups) and algebraic topology (as fundamental groups of compact hyperbolic surfaces). Hyperbolic groups possess geometrical properties well suited for the study of homological finiteness conditions. In this talk we will prove some of these results via free resolutions obtained from the Rips-complex. cf: Groups - Complexity - Cryptology 2 (2010), deGruyter, p. 203-212. (Received March 08, 2011)