Geometric and Asymptotic Group Theory with Applications
2016

Bettina Eick

Technische Universität Braunschweig

Isomorphism testing for nilpotent groups of small Hirsch length

Tuesday, June 14, 2016
Stevens Institute of Technology, Kidde 228
3:10 PM

Abstract:
A practical method to test isomorphism and to determine the automorphism group for polycyclic groups is one of the main open problems in the algorithmic theory for polycyclic groups. This talk will exhibit a method to solve this problem in the special case of torsion free nilpotent groups of small Hirsch length.