

Alexei Fest

Vladimir Shpilrain

City College of New York

Andrews-Curtis vs. Serre

Friday, February 6, 2015 CUNY Graduate Center, Room 4102 11:40am

Abstract:

In one of his first published papers, in 1984, Alexei Myasnikov proved the Andrews-Curtis conjecture for solvable groups. In this talk, I will show that a slightly more general version of the Andrews-Curtis conjecture for the free metabelian group of rank 3 is equivalent to the only remaining open case of a conjecture in K-theory attributed to Serre, namely: any invertible 2×2 matrix over the ring of Laurent polynomials $\mathbb{Z}[t, t^{-1}]$ is a product of elementary and diagonal matrices.