September 21, 2012 9:30 a.m. - 5:30 p.m. Bissinger Room 4th floor, Howe Center Stevens Institute of Technology Hoboken, NJ September 22, 2012 9:00 a.m. - 5:45 p.m. Room C002 Hunter North Building Hunter College (CUNY) New York, NY

Url: http://www.stevens.edu/algebraic/GTH/

Group Theory on the Hudson

Alexei Miasnikov (Stevens Institute of Technology, NJ) "Definable sets in free and hyperbolic groups"

Abstract:

I will talk about algebraic structure of definable sets in a free or a torsion-free hyperbolic group G. Recall, that a subset of n-tuples in G is definable if it is the truth set in G of some first-order formula with n free variables. In our joint work with Olga Kharlampovich we give a natural description of definable sets in G, which allows us to solve several old open problems.

