

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

Mark Sapir
(Vanderbilt University, TN)
“Dimension growth of groups”

Abstract:

Let X be a graph and $r > 0$, we say that r -dimension of X is $k-1$ if we can color X in k colors so that all monochromatic clusters have uniformly bounded diameters and $k = k(r)$ is the smallest possible. We prove that the function $k(r)$ for the Thompson group is exponential if we additionally assume that the clusters have at most exponential (in r) sizes. I will also talk about connection between dimension growth, expansion in graphs, Ramsey theory and property A. This is a joint work with A. Dranishnikov.

