

BI-CO MATHEMATICS COLLOQUIUM

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“Counting and growth in infinite graphs and groups”

Monday, October 21, 2019

Talk at 4:00 – Hilles 109

Tea at 3:30 – Hilles 208, Math Lounge

Abstract:

Computing the number of vertices in a graph is of fundamental importance in computing run-time of algorithms and to quantify the complexity of combinatorial models and objects. The growth function of a graph counts the number of vertices a fixed distance from some root vertex. In this talk, we will explore many examples that highlight the role of growth in geometric group theory including algebraic implications and connections with understanding the geometry of nonpositively curved manifolds.

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