

Ricci curvarure and heat kernel estimate on graphs

2014 - 05 - 07 (Wed.)

14:30 - 15:30

R202, Astronomy and Mathematics Building

By introducing the Ricci curvature lower bound on graphs, we prove the following result on graphs with non-negative Ricci curvature: The volume doubling and Poincare inequality, discrete-time heat kernel Gaussian estimate, parabolic Harnack inequality. These are the similar results on Riemannian manifold with non-negative Ricci curvature.



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