

Department of Applied Mathematics and Statistics
The Johns Hopkins University

STUDENT SEMINAR

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Tuesday, April 15, 2008
304 Whitehead Hall
4:00 p.m.

**TORUS GRAPH INFERENCE FOR DETECTION
OF LOCALIZED ACTIVITY**

ABSTRACT

Our goal is to detect localized regions of excessive activity in a network, distinguishing networks that contain such regions from networks whose activity is more homogeneous. We consider inference on torus-based latent position random graphs, using edge density, maximum degree, and other test statistics.