

## **Concentration Inequalities for Poisson $U$ -Statistics**

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Time **Thursday, Oct 16, 2014 at 15:45**

Place **Campus Kirchberg, room B04**

In recent years, the investigation of  $U$ -Statistics associated to Poisson point processes has been an active area of research. In this talk, deviation and concentration inequalities for certain Poisson  $U$ -Statistics will be presented. In particular, I will focus on subgraph counts in random geometric graphs. In a basic version of these graphs, the vertices are given by a Poisson point process and any two vertices are connected by an edge whenever their distance does not exceed some fixed positive real number.