A model for demand spread and

Kronecker PageRank

2014 - 05 - 21 (Wed.)

14:00 - 15:00

R440, Astronomy and Mathematics Building

   In this talk we discuss a stochastic model for the spread of demands for products on a graph, which generalizes the contact process, which is a classical model for the spread of disease. We show how the evolution of the demands under this model can be captured by a variant of PageRank called Kronecker PageRank, which captures the interplay between the underlying geometry and the graph and the 'geometry' of the demand parameters.