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# RANDOM NETWORKS AND EPIDEMICS

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## Abstract

Random networks may be used to describe the social structure in a community. On such a network one can model the spread of an infection. Questions of interest to study are for example: Can a big outbreak occur?, How large will it be?, What is the effect of introducing a given vaccination scheme? In the talk we will survey this area, with focus on effects of the underlying random network on the questions formulated above.

**Date :** Friday, April 10, 2015

**Time:** 11:00-12:00

**Place :** IMBM Seminar Room, Boğaziçi University South Campus