



## Mathematics and CS Seminar

# On the threshold of spread-out contact process percolation

**Balázs Ráth (TU Budapest=BME)**

**Host: M. Beiglböck, N. Berestycki, L. Erdős, J. Maas, F. Toninelli**

In the (spread-out)  $d$ -dimensional contact process, vertices can be healthy or infected. With rate one infected sites recover, and with rate  $\lambda$  they transmit the infection to some other vertex chosen uniformly within a ball of radius  $R$ . In configurations sampled from the upper stationary distribution, we study nearest-neighbor site percolation of the set of infected sites and describe the asymptotic behaviour of the associated percolation threshold as  $R$  tends to infinity. Joint work with Daniel Valesin.

**Friday, March 6, 2020 04:30pm - 05:20pm**

IST Austria Campus Rényi Institute, Budapest



This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: <https://ist.ac.at/en/campus/how-to-get-here/> The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.