



## Mathematics and CS Seminar

# On the threshold of spread-out contact process percolation

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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**

Rényi Institute, Budapest



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