

Dear colleagues,

We cordially invite you to the public lecture by prof. Daniel Král' from University of Warwick, UK, the holder of two ERC grants, whom we would like to warmly welcome to a full academic position at FI MU in connection with the *MUNI Award in Science and Humanities* later this year.

His lecture **"Models of Large Networks"** will be delivered on **** Friday Feb 16, at 11 - 12h in the lecture room D3 at FI MU.**

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Abstract

A graph is a mathematical model of a network of nodes, which can be, e.g., a computer network or a social network. Problems concerning networks of enormous sizes, which more and more often arise in computer science applications, led to a need to find new mathematical tools to represent and analyze large graphs. The theory of graph limits, whose foundations were laid at Microsoft Research about a decade ago, has responded to these challenges by developing analytic models of large graphs.

We will provide a brief self-contained introduction to the theory of graph limits, which will be followed by the exposition of the most major lines of research. We will conclude with presenting solutions of some of the most significant open problems in the area.

Please come in abundant numbers to this truly unique event in the Czech national context! See also the details [here](#).