

# НАЦИОНАЛЕН СЕМИНАР ПО СТОХАСТИКА

*секция „Изследване на операциите, вероятности и статистика“*

Поредната сбирка на *Националния семинар по стохастика* ще се проведе на **9 юни 2026 г.** (вторник) от **14:00** часа в зала **503** на ИМИ-БАН. Доклад на тема:

## ***"Modified percolation models on lattice graphs"***

ще изнесе **Viktor Stoyanov** (University of Warwick).

**Abstract:** We consider modified percolation models on the first quadrant of  $Z^2$ , where many of the key tools from standard percolation on  $Z^2$  fail, such as translational invariance. I will begin by defining the standard percolation model on  $Z^d$ , giving an overview of what is known, and then give some results which we prove for the first quadrant of  $Z^2$ .

In the second part of the talk, I will discuss an anisotropic percolation model on the first quadrant, with one of the two directions being 'preferable', and show a partial result concerning the strict monotonicity of the connectivity function, conjectured by de Lima and Procacci (2004). This is based on work completed as part of my Masters' dissertation project, supervised by Daniel Valesin (University of Warwick).

Поканват се всички интересувачи се.