

Friedrich-Alexander-Universität Research Center for Mathematics of Data | MoD



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ETH ZÜRICH

Free boundary regularity for the obstacle problem

WED. OCTOBER 11, 2023 • 14:00H

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Free boundary regularity for the obstacle problem

Speaker: Prof. Dr. Alessio Figalli

ETH Zürich

Organizer: FAU MoD, Research Center for Mathematics

of Data at FAU, Friedrich-Alexander-Universität

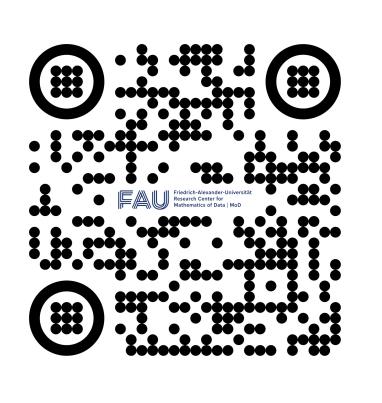
Erlangen-Nürnberg (Germany)

The classical obstacle problem consists of finding the equilibrium position of an elastic membrane whose boundary is held fixed and constrained to lie above a given obstacle. By classical results of Caffarelli, the free boundary is smooth outside a set of singular points. However, explicit examples show that the singular set could be, in general, as large as the regular set.

This talk aims to introduce this beautiful problem and describe some classical and recent results on the regularity of the free boundary.

WHEN?

Wednesday October 11, 2023 14:00H



#FAUMoDLecture

WHERE?

Online

Zoom meeting link: shorturl.at/hmDQU

Meeting ID: 614 4658 1599

PIN: 914397