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ETH ZÜRICH

**Free boundary regularity
for the obstacle problem**

WED. OCTOBER 11, 2023 • 14:00H

www.mod.fau.eu**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

WHERE?

Online

Zoom meeting link:
shorturl.at/hmDQUMeeting ID: **614 4658 1599**PIN: **914397**