THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON PDE

Rate of blow up in the thin obstacle problem

By

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Abstract

The thin obstacle problem is a classical free boundary problem arising from the study of an elastic membrane resting on a lower-dimensional obstacle. Concerning the behavior of the solution near a contact point between the membrane and the obstacle, many important questions remain open. In this talk, we discuss a unified method that leads to a rate of convergence to `tangent cones' at contact points with integer frequencies. This talk is based on a recent joint work with Ovidiu Savin (Columbia).

Date : 4 March 2022 (Friday)

Time : 9:00am

Zoom Meeting : https://hkust.zoom.us/j/98015517417 (Passcode: 446612)

All are Welcome!