Analysis Seminar

Least gradient problem via Optimal transport

By

Samer Dweik
(University of British Columbia)

Abstract: In this talk, we consider the least gradient problem with Dirichlet condition on (a part of) the boundary. In 2D, we show that this problem is equivalent to an (import/export) optimal transport problem. Thanks to this equivalence, we show existence and uniqueness of a solution to the least gradient problem. Then, we study the regularity of this solution by studying the summability of the transport density in the corresponding equivalent optimal transport formulation.

Date: Monday, June 21, 2021
Time: 13:30-14:30, GMT+3.
Place: ZOOM
To request the event link, please send a message to goncha@fen.bilkent.edu.tr