



istanbul matematiksel bilimler merkezi  
istanbul center for mathematical sciences

# THE EXPECTED DEPTH OF RANDOM REAL ALGEBRAIC PLANE CURVES

Özgür Kışisel

Middle East Technical University

## Abstract

Understanding and classifying the possible placements of connected components of a real algebraic curve of a given degree in the real projective plane is a classical problem in algebraic geometry. One can also investigate this problem for a randomly chosen real algebraic curve and try to compute statistical quantities, such as the expected number of components. In this talk, we will look at the problem of computing expected depth of a random real algebraic curve chosen according to the Kostlan probability measure.

**Date :** Thursday, September 30, 2021

**Time:** 14:00

**Place:** IMBM Seminar Room, Bogazici University South Campus