
THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE
Geometric Functional Analysis and Probability Seminar

Room 155 ,Ziskind Building
on Thursday, Oct 31, 2019at 13:30

Mikhail Ostrovskii St. John's University

Geometry of transportation cost (a.k.a. Earth Mover or Wasserstein distance)

Abstract:

We consider (finitely supported) transportation problems on a metric space M . They form a vector space $TP(M)$. The optimal transportation cost for such transportation problems is a norm on this space. This normed space is of interest for the theory of metric embeddings because the space M embeds into it isometrically. I am going to talk about geometry of such normed spaces. The most important questions for this talk are relations of these spaces with L_1 and L_∞ spaces.