

LSI via OMT and curvature

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August 13, 2025

Abstract

Optimal Mass Transportation (OMT) proved to be an important method in proving functional inequalities in curved spaces. In this talk I will consider the case of the Logarithmic Sobolev Inequality (LSI) and present some recent results in this direction. One of the main goals will be to understand the implications of various concepts of curvature in this setting. The results are based on joint work with Sebastiano Don, Alexandru Kristály and Francesca Tripaldi.