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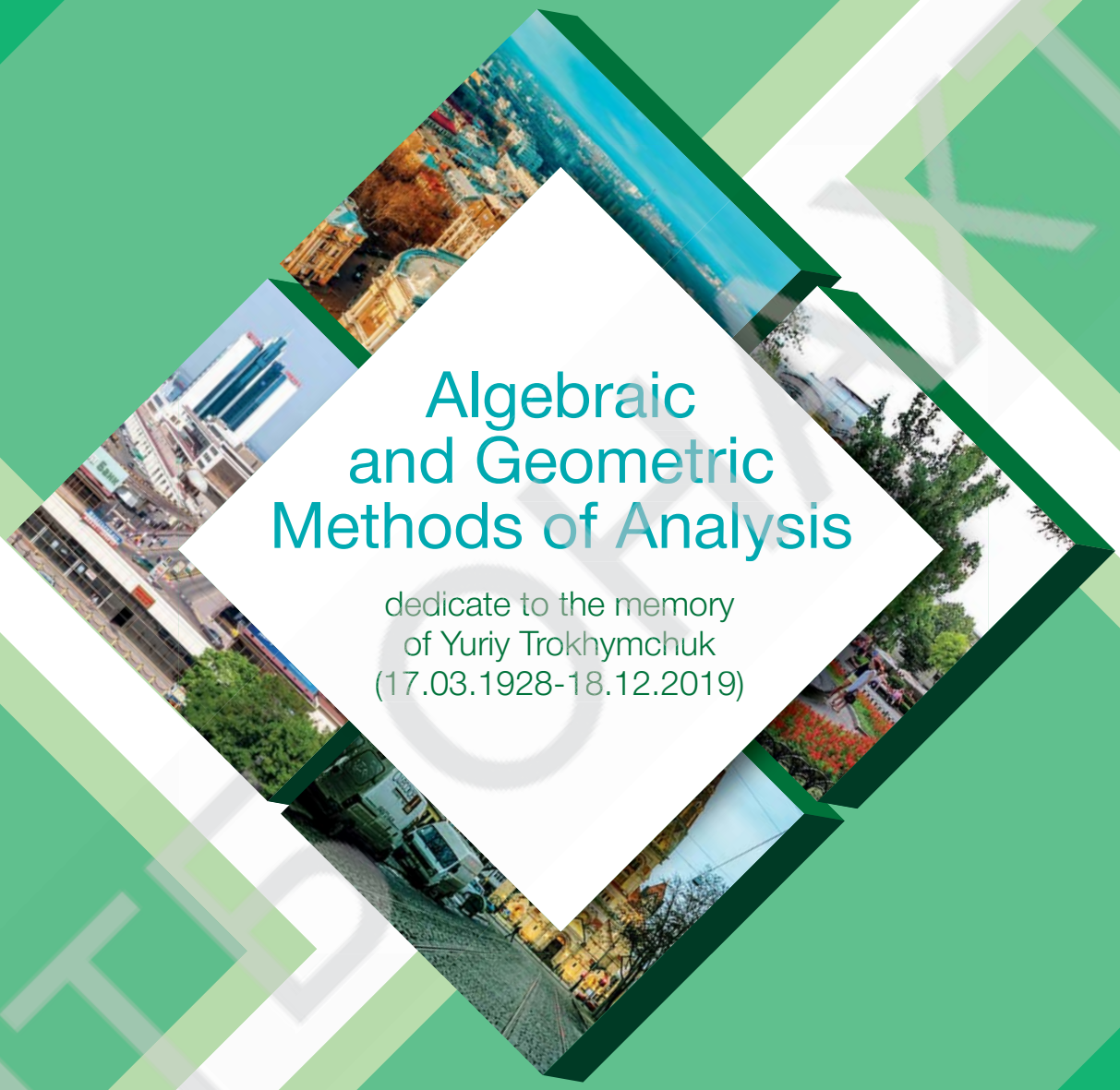

Algebraic and Geometric Methods of Analysis

dedicate to the memory
of Yuriy Trokhymchuk
(17.03.1928-18.12.2019)

May 25-28, 2021
Odesa, Ukraine

List of topics

- Topological methods in analysis
- Geometric problems of complex and mathematical analysis
- Algebraic methods in geometry
- Differential geometry in the whole
- Geometry and topology of differentiable manifolds
- General and algebraic topology
- Geometric and topological methods in natural sciences

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Variational principles for metric mean dimension

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Entropy has been a fundamental concept in the theory of dynamical systems from its beginnings. Together with the newer concept of mean dimension, these invariants can be related to various embeddings in shift spaces. An important result from 1970, known as the "variational principle" relates topological and measurable entropies. Recently various variational principles relating metric mean dimension and (variants of) measurable entropy have been proven. We will survey some of these old and new developments. Based on joint work with Adam Śpiewak.