Workshop dedicated to the memory of Professor Gabriela Kohr
(6th edition)
Geometric Function Theory in Several Complex Variables and Complex Banach Spaces
Cluj-Napoca, Romania November 27 – 29, 2026

Understanding entropy using Aubin-Yau deformations

Tamás Darvas
University of Maryland, USA

Abstract

We investigate three types of entropy that frequently appear in the research of Kahler geometry: the classical Kahler entropy, the radial entropy and the non-Archimedean entropy. We give a unifying interpretation for these entropies by showing that they can all be expressed as the derivative of the Monge-Ampere energy along certain Aubin-Yau type deformations.