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Pluripotential theory: how to get singular Kähler-Einstein

Abstract

In the last 50 years pluripotential theory has played a central role in order to solve geometric problems, such as the existence of special metrics (e.g. Kähler-Einstein, csck) on a compact Kähler manifold. In this talk I am going to present some recent developments in pluripotential theory. These new tools are so flexible that allow to study "singular" settings: we will be then able to work with a singular variety and/or to search for a singular metrics. The talk is based on a series of joint papers with Tamas Darvas and Chinh Lu.