

Choquet-Monge-Ampère Classes

Abstract

In this talk we will consider a special class of quasi-plurisubharmonic functions, namely Choquet-Monge-Ampère classes on compact Kähler manifolds. These classes become a useful intermediate tool in the analysis of Complex Monge-Ampère operator with their small enough asymptotic capacity. We will first characterize these classes through Choquet energy and then compare them with the finite energy classes. We will see that over different singularity types the comparison between Choquet-Monge-Ampère classes and the finite energy classes yields totally different characteristics.

References

- [GZ05] V. Guedj, A. Zeriahi: Intrinsic capacities on compact Kähler manifolds. *J. Geom. Anal.* **15** (2005), no. 4, 607-639.
- [GZ07] V. Guedj, A. Zeriahi: The weighted Monge-Ampère energy of quasi-plurisubharmonic functions. *J. Funct. An.* **250** (2007), 442-482.