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Cores and defining functions. Nikolay Shcherbina

We discuss some properties of the "core" of a domain in a complex manifold. The "core" is defined as the set of points where all bounded above plurisubharmonic in this domain functions fail to be strictly plurisubharmonic. We also discuss the question of existence of a plurisubharmonic defining function for a given pseudoconvex domains and its relation to the core.