

Abstract:

It's the recent result of [Guan & Zhou] on the so called "openness conjecture", that is, for a plurisubharmonic function u , the set of constants $c > 0$ such that $\exp(-2cu)$ is integrable near a fixed point is always an open interval. It can be proved by induction on dimension and then applying Ohsawa-Takegoshi extension theorem. With this result, another conjecture posed by Demailly-Kollár about the growth of the volume of the sublevel sets of plurisubharmonic functions can also be proved.