

I will talk about geometric conditions that guarantee the parabolicity (non-existence of bounded non-constant and subharmonic functions) or non-parabolicity (existence of such non-constant functions) of a Riemannian manifold.

Then, we will see how to use estimates for the capacity of a compact domain in a submanifold under certain curvature restrictions in order to show that this submanifold is non-parabolic.