ALEXANDER BRUDNYI, Calgary ON NONLINEAR RUDIN-CARLESON TYPE THEOREMS

Let $\overline{\mathbb{D}} \subset \mathbb{C}$ be the closed unit disk and $\mathbb{T} \subset \overline{\mathbb{D}}$ be the unit circle. The classical Rudin-Carleson theorem asserts that if $S \subset \mathbb{T}$ is a closed subset of Lebesgue measure zero, then for every complex continuous function f on S there exists a continuous function g on $\overline{\mathbb{D}}$ holomorphic in its interior \mathbb{D} such that $g|_S = f$ and $\max_{\overline{\mathbb{D}}} |g| \leq \max_S |f|$.

In the talk, I present analogs of this interpolation theorem for continuous maps into complex manifolds.