

Angular Derivatives and Boundary Values of $H(b)$ Spaces of Unit Ball of \mathbb{C}^n

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In this talk we will consider a special subclass of the Hardy-Hilbert space $H^2(\mathbb{B}^n)$, namely deBranges-Rovnyak spaces $H(b)$, in the setting of the unit ball of \mathbb{C}^n . One of the main problems in the study of $H(b)$ functions is their representation and in the first part of this talk we will see how we can represent these classes through the Clark measure on S^n associated with b . In the second part we will give a characterization of admissible boundary limits in relation with finite angular derivatives and we will see the interplay between Clark measures and angular derivatives showing that Clark measure associated with b has an atom at a boundary point if and only if b has finite angular derivative at the same point. More detailed analysis of the concepts mentioned in this talk can be found in the following study:

Şahin,S. Angular Derivatives and Boundary Values of $H(b)$ Spaces of Unit Ball of \mathbb{C}^n , *Complex Variables and Elliptic Equations*, DOI: 10.1080/17476933.2020.1715373, (2020).