

İSTANBUL ANALYSIS SEMINARS

MONGE-AMPÈRE MEASURES AND HARDY SPACES ON BOUNDED HYPERCONVEX DOMAINS

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Abstract: In this talk we will consider a Hardy type class of analytic functions on the unit disc \mathbb{D} of \mathbb{C} , denoted by $H_u^p(\mathbb{D})$. This class is associated with a continuous exhaustion function u of the unit disc and it is a special example of more generally defined Hardy classes on hyperconvex domains (Jean Pierre Demailly (1985), Muhammed Ali Alan (2003) and Evgeny A. Poletsky & Michael I. Stessin (2008)). After giving some results about the general case we will especially concentrate on the classical Hardy space ($H^p(\mathbb{D})$) theorems on boundary values, composition operators etc. which are related to this example.

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