

Analysis and Data Science Seminar

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A BRIEF SURVEY ON THE HARDY SPACE OVER THE BIDISC

Tuesday, February 17, 2026
3:00 P.M. in Massry B012

ABSTRACT. The classical Hardy space $H^2(\mathbb{D})$ consists of square integrable functions on the unit circle that have analytic extensions into the unit disk \mathbb{D} . It is the birthplace of many important theories in analysis: analytic function theory, Toeplitz operators and algebras, operator model theory, Brown-Douglas-Fillmore (BDF) theory, just to name a few. Despite formidable challenges, effort of extending the study from $H^2(\mathbb{D})$ to the Hardy space over the bidisc $H^2(\mathbb{D}^2)$ has garnered significant success in recent decades. This talk will offer a brief account of this journey. It is accessible to graduate students.