

Analysis seminar Thursday October 29, 2009

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Title: Density of the polynomials in the Bergman space of Slit-Domains

Abstract: We answer in the affirmative a rather long-standing question (circa 1937) as to whether or not there exists a Jordan arc Γ with endpoints 0 and 1 such that $\Gamma \setminus \{1\} \subseteq \mathbb{D}$ and the polynomials are dense in the Bergman space $\mathbb{A}^t(\mathbb{D} \setminus \Gamma)$; $0 < t < \infty$.