

Approximation in the mean on rational curves

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The density of polynomials or rational functions in the Lebesgue L^2 -space associated with a positive, compactly supported measure on the complex plane is governed by the existence of bounded analytic point evaluations. Deep results of Thomson and Brennan are definitive in this respect. I will report on some recent advances of this type, on affine algebraic curves. Joint work with Shibnanda Biswas