ICM 1998, Berlin, Aug. 18–27

Abstracts of Short Communications and Posters

Section:

8. Analysis

1991 MS Classification: 46E20

Stray, Arne

Polynomial approximation of analytic functions with finite Dirichlet integral

Let A denote the Hilbert space of all analytic functions in the unit disc D having finite Dirichlet integral. We characterize the relatively closed subsets F of D with the following property: If f is a function in A bounded on F, there are polynomials $P_n, n = 1, 2$ such that P_n converges to f in A and simultaneously pointwise boundedly to f on F.