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Nonlinear Oscillatory Expansions of Analytic functions

We extend results of Coifman, T. Qian et al. on the Blaschke unwinding series expansion of an entire function f , a nonlinear analogue of Fourier series with a wide range of practical applications. To do this, we consider an unwinding of f by elements in the closed unit ball of H^∞ . We also present convergence theorems in H^p for our unwinding series.