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MATHEMATIKKOLLOQUIUM

Das Institut für Mathematik, Arbeitsgruppe Numerical Analysis
lädt zu folgendem Vortrag ein:

Nick Trefethen

Oxford University

You can't beat Gibbs and Runge

Suppose you sample an analytic function f in n equispaced points in $[-1,1]$. Can you use this data to approximate f in a manner that converges exponentially as $n \rightarrow \infty$?

Many algorithms have been proposed that are effective for practical values of n , but we prove that they must all fail in the limit $n \rightarrow \infty$: Exponential convergence implies exponential ill-conditioning.

This is joint work with Rodrigo Platte and Arno Kuijlaars.

Zeit: Dienstag, den 01. Juni 2010 um 17:15 Uhr

Ort: Victor-Franz-Hess Haus, Technikerstraße 25, HS F

Gäste sind herzlich willkommen!

Alexander Ostermann