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What is a Hermite-Padé approximation problem?

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Abstract

The goal of this talk is introduce you to the theory of Hermite-Padé approximants. Hermite-Padé approximants, which are a natural extension of Padé approximants, were first used by Hermite in his proof of the transcendence of e.

We will see how this theory is related to other areas as orthogonal polynomials and Riemann-Hilbert problems, and we will present some recent results about uniform convergence of these Hermite-Padé approximants.

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