

# Hermite-Padé rational approximation to irrational numbers \*

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## Abstract

We will describe a method for proving that a given real number is irrational. It amounts to constructing explicit rational approximants to the real number which are better than possible in case the number is rational. The rational approximants are obtained by evaluating a Hermite-Padé rational approximant to explicit functions at a convenient (integer) point. This constructive proof can also be used to prove linear independence over  $\mathbb{Q}$  of some real numbers and in fact was first used by Hermite to prove the transcendence of  $e$ . The method is illustrated by various examples involving the zeta-function.

## 1 Introduction

Most real numbers are irrational, yet it is not straightforward to give examples of irrational numbers. Surely, algebraic numbers come to mind, but their number is countable as well. Only a few remarkable mathematical constants are known to be irrational. The algebraic number  $\sqrt{2}$  is irrational and the most common proof (using contradiction and simple properties of odd and even numbers) is very instructive, even at pre-university level. The proof allegedly goes back to the Pythagoreans, which were in fact not so happy to find that the lengths of some lines in a square (the diagonal and the sides) are incommensurable (i.e., their ratio is not a rational number). The base of the natural logarithm, Euler's number  $e$ , is more interesting and Euler seems to be the first for proving its irrationality. Euler used continued fractions [13] and obtained an infinite regular continued fraction for  $e$ , which proves its irrationality. Another proof uses the Taylor approximation

$$e^x = \sum_{k=0}^n \frac{x^k}{k!} + \frac{e^\xi}{(n+1)!}, \quad \xi \in (0, x),$$

for  $x = 1$ . Since  $0 < e^\xi < e < 3$ , this gives

$$0 < n! \left( e - \sum_{k=0}^n \frac{1}{k!} \right) < \frac{3}{n+1}. \quad (1.1)$$

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# Pade Rational Approximation Theory A

**Yijin Wang**



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