

Computational Physics Laboratory report

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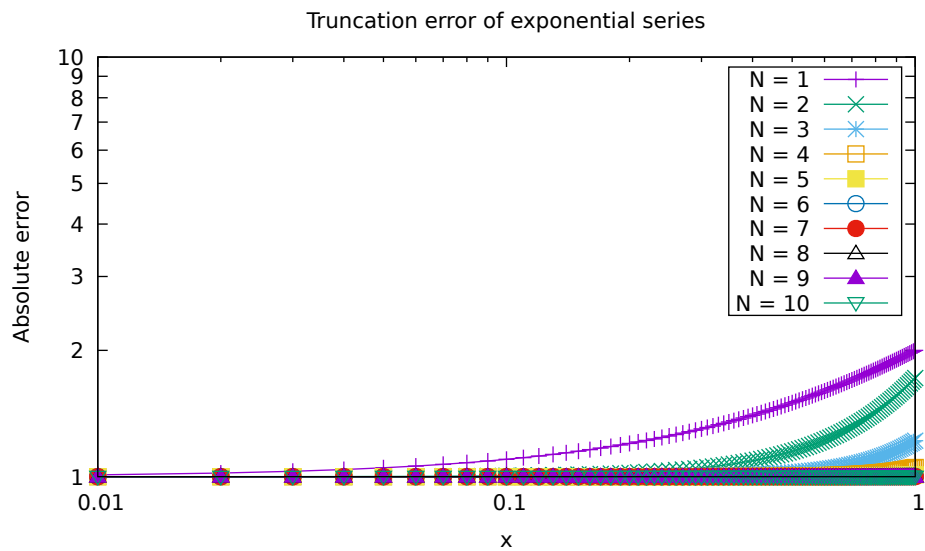
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Chapter 1

Error analysis



1.1 Approximating exponentials

1.2 Convergence of the Basel problem

1.3 Testing implementations of statistical momenta

Chapter 2

Linear systems

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2.1 Forward- and back-substitution

2.2 LUP Decomposition

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2.3

Chapter 3

Interpolation

Chapter 4

Roots of nonlinear equations

Chapter 5

Numerical integration

Chapter 6

Ordinary differential equations