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three decades,

spectral methods

have emerged as

successful, and of-

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ten superior,
alternatives to the
better known finite
difference and
finite element
methods.

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include several key
areas of
computational fluid
dynamics,

modeling different
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approach, we give

a quantum

algorithm for time-

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and boundary

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with complexity $\mathcal{O}(\{$

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numerical method
for ODEs.

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equations: they are
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mathematicians
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a question arises
as how to

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determine the
expansion order,
especially for time-
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problems in which
emerging

oscillations may
require adjusting
the expansion

order. In this
paper, we propose
a frequency-
dependent
-adaptive

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technique that
adaptively adjusts
the expansion
order based on a
frequency
indicator.

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Consider a time-dependent PDE in which the spatial derivatives have been discretized by central finite differences or by some spectral method. This gives

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rise to a large
system of ordinary
differential
equations (ODEs)
in time which
typically has the
form $(1) \dot{u} = f(u) +$
 $v g(u)$ where $\|g\|_1$
is normalized and v
is a nonnegative
parameter.

Implicit-Explicit
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When applying spectral methods to time-dependent PDEs, the solution is typically written as a sum of basis functions with time-dependent coefficients;

substituting this in the PDE yields a system of ODEs in

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which can be
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