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Topic Modeling: A Provable Spectral Method

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Introduction to Computational Fluid Dynamics - Numerics - 1 - Finite Difference and Spectral Methods

Principal Component Analysis 2 Theory (1/2)

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Lecturer: Henrik Alfredsson (KTH) Location: FLOW eSeminar (Zoom)

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~~Error estimators in the spectral element method | KTH~~

The spectral-element method (SEM) is used to study wall-bounded turbulent flows in moderately complex geometries. The first part of the thesis is devoted to simulations of canonical flow cases, such as temporal K-type transition and turbulent channel flow, to investigate general resolution requirements and computational efficiency of the numerical code nek5000.

~~The Spectral Element and Pseudo Spectral Methods : A ...~~

Aspects of adaptive mesh refinement in the spectral element method Elektra Kluesberg, June 2019
Wind-turbine wakes - Effects of yaw, shear and turbine interaction Seyed Hamid Tabaeikazerooni, June 2019

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By following the same approach as that adopted by Mann (J. Fluid Mech., vol. 273, 1994, pp. 141-168), a model for the spectral velocity tensor in the atmospheric boundary layer is obtained, where the spectral tensor, assumed to be isotropic at the initial time, evolves until the breakup time where the spectral tensor is supposed to achieve its final state observed in the boundary layer. The model predictions are compared with atmospheric measurements obtained over a

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forested area, giving ...

~~A spectral model for stably stratified turbulence ...~~

SECTION USING HIGH-ORDER PARALLEL SPECTRAL METHODS
Ricardo Vinuesa Linn e FLOW Centre,
KTH Mechanics´ SE-100 44 Stockholm, Sweden
rvinuesa@mech.kth.se Seyed M. Hosseini

~~DIRECT NUMERICAL SIMULATION OF THE FLOW AROUND A WING ...~~

Galerkin methods for the temporal domain. More re- cently Dehghan . et al. [12] found solutions to the non- linear Schrödinger equation, using a pseudo-spectral method where the basis functions in time and space were constructed as a set of Lagrange interpolants. Chebyshev polynomials are used here for the spectral representation in the GWRM.

~~A Spectral Method in Time for Initial Value Problems~~

Direct numerical simulations, performed with a high-order spectral-element method, are used to study coherent structures in turbulent pipe flow at friction Reynolds numbers $Re_{\tau} = 180$ and 550 .

~~Ricardo VINUESA | Professor (Associate) | Ph.D. Mechanical ...~~

Maday, Y. & Patera, A. T. 1989 Spectral element methods for the incompressible Navier-Stokes equations. In State-of-the-Art

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Surveys on Computational Mechanics (A90-47176
21-64). New York, American Society of
Mechanical Engineers, 1989, p. 71-143.
Research supported by DARPA, pp. 71-143.

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