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 The spectral-element method (SEM) is used to study wall-bounded turbulent flowsin moderately complex geometries. The first part of the thesis is devoted to simulations of canonical flow cases, such as temporal K-type transitionand 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 Tabaeikazerouni, June 2019

~~Doctoral Thesis - KTH~~  
 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 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 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.

Spectral and High Order Methods for Partial Differential Equations Spectral and High Order Methods for Partial Differential Equations ICOSAHM 2018 Spectral and High Order Methods for Partial Differential Equations - ICOSAHM 2012 Seventh IUTAM Symposium on Laminar-Turbulent Transition Applied Mechanics Reviews Direct and Large-Eddy Simulation XI Direct and Large-Eddy Simulation V Solving Software Challenges for Exascale Direct and Large Eddy Simulation XII Advances in Turbulence V Design and Analysis of Composite Structures for Automotive Applications Sixth IUTAM Symposium on Laminar-Turbulent Transition Progress in Industrial Mathematics at ECOMI 2006 Direct and Large-Eddy Simulation VIII Advances in Turbulence XII Direct and Large-Eddy Simulation IX Progress in Turbulence VI Progress in Turbulence IUTAM Symposium on One Hundred Years of Boundary Layer Research Instability and Control of Massively Separated Flows  
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