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Laminar flow theory

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From transient to fully turbulent shear flows |

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the phenomena being universal for the near-wall flows of The laminar turbulent transition in a Transition in Incompressible Near-Wall Shear Layers Pages

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Stability and transition in shear flows

Stability and Transition in Shear Flows, P. J. Schmid, D. S. Henningson. Since the transition does not occur through the standard eigenmodal mechanism

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Transition in shear flows. nonlinear normality

concept of non normal operators and transient growth as the key to understanding transition to turbulence in shear flows. American Institute of Physics

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Other authors: Alexander V. Dovgal, Genrih R. Grek, Victor V. Kozlov. Includes bibliographical references and index

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Low-dimensional modeling and numerical simulation

in wall-bounded and free shear flows understanding of the physics of laminar-turbulent transition that were control of transitional flows is

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Turbulence transition in stratified atmospheric

Turbulence transition in stratified atmospheric Department of Physics, The zoo of secondary instabilities precursory to stratified shear flow transition.

Modeling the transition to turbulence in shear

One-dimensional models are presented for transitional shear flows. Modeling the transition to turbulence in shear flows. ELI-NP National Institute for Physics

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in wall-bounded shear flows, the transition to turbulence is violent in the sense that the flow the physics of instabilities leading to chaos and

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