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Kinetic Seminar

Linear stability of Couette flow in 3D Compressible Navier-Stokes equations

by

Professor Ruizhao ZI
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Abstract :

In this talk, I will first give a short review of the typical phenomenons in hydrodynamic stability theory, including inviscid damping, enhanced dissipation and lift-up. Then I will show that how to capture the such effects by means of the Fourier multiplier method. Finally, I will use the Fourier multiplier method to prove the linear stability of Couette flow in 3D Compressible Navier-Stokes equations.

Date : November 24, 2022 (Thursday)
Time : 10:00am – 12:00pm (Hong Kong SAR)
ZOOM Link:
<https://cuhk.zoom.us/j/99994133789?pwd=dUNySEpxb2dnUFNjeTlhZlhmTDdUdz09>
ZOOM Meeting ID : 999 9413 3789
Passcode : 20221124

All are Welcome