



ICTS Seminar

Title : Instability of flow over localised heating elements in boundary layers

Speaker: Jitesh Gajjar, University of Manchester

Date : Wednesday, January 29, 2020

Time : 11:30 AM

Venue : Emmy Noether Seminar Hall, ICTS Campus, Bangalore

Abstract: The problem of generation of Tollmien-Scglichting waves generated by a

vibrator and with localized heating elements is investigated. The nonlinear receptivity problem based on triple-deck theory is formulated and the linearized initial-value problem solved both analytically as well as numerically. Several new results are obtained including one which demonstrates how Tollmien-Schlichting waves may be cancelled with

suitably chosen wall heating profiles.

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