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DEPARTMENT SEMINAR NOTICE

SPEAKER: Dr. Rajneet Kaur
Post-doc fellow (women scientist),
WISE KIRAN DST
Department of Physics,
Panjab University, Chandigarh

TITLE: Study of Nonlinear Structures in Multicomponent
Plasmas

DATE & DAY: 12 Feb, 2026 (Thursday)

VENUE: Seminar Hall

TIME: 4.00 P.M.

Abstract: This study investigates the nonlinear structures in multicomponent plasma using fluid model. The reductive perturbation method (RPT), Multiple Scale Perturbation method is employed to derive the various kinds of nonlinear structures. The effects of multiple charged species on wave propagation, stability, and solitary structures are analysed. Results demonstrate how compositional variations significantly influence nonlinear dynamics and electrostatic wave characteristics.

All faculty members, research scholars, and students are cordially invited.

Chairperson

