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PHS :

Dated: 29.01.2025

DEPARTMENT SEMINAR NOTICE

SPEAKER: Prof. Soumendu Jana
Department of Physics and Materials Science
Thapar Institute of Engineering & Technology, Patiala

TITLE: Journey with Solitons: From Shallow Water to Micro-resonators

DATE & DAY: 30 January 2025 Thursday

VENUE: Seminar Hall

TIME: 3.30 P.M.

ABSTRACT: A soliton is a self-localized structure, such as a pulse or beam that maintains or periodically repeats its shape and size while propagating through a medium, even after interacting with other solitons. First observed in water waves, solitons have since been predicted and identified in a wide range of media across various disciplines, including physics, chemistry, biochemistry, biology, astronomy and beyond. Their ubiquity is so profound that one might assert: wherever there is a wave, there could be a soliton.

This talk will explore the evolution of soliton research across different fields, shedding light on their fundamental characteristics and highlighting recent advances in the domain. Additionally, some theoretical approaches for studying solitons will be discussed, providing insight into this fascinating phenomenon.

All interested are cordially invited to attend.

Chairperson

w/

S. N. Jha
Chairperson
Department of Physics
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