

Session Program

18 February 2023



UH Physics Research Day - 2023

Parallel Session 2

University of Houston - Main Campus
101 Farish Hall

Friday 17 February

13:00

Parallel Session 2

Session | **Location:** University of Houston - Main Campus, 101 Farish Hall | **Conveners:**
Claudia Ratti, Rene Bellwied

13:00-13:15 Centrality Measures for Directed Signed Networks

Speaker
Atrayee Sarkar

13:15-13:30

Extreme Value Statistics of Community Detection in Complex Networks with Reduced Network Extremal Ensemble Learning (RenEEL)

Speaker
TANIA GHOSH

13:30-13:45

Conventional superconductivity at the surface of a Type-I Weyl Semimetal

Speaker
Aymen Nomani

13:45-14:00

Machine Learning to Identify Gene Structure

Speaker
Ethan Speakman

14:00-14:15

Vortical effects in chiral band structures

Speaker
Swadeepan Nanda

14:15-14:30

Proton Exchange Membrane for Fuel Cell and Water Electrolysis Application

Speaker
Subash Bhandari

14:30-14:45

The significantly distinct performance of thermoelectric AMg₂Sb₂ (A = Ca, Sr, Sm, Yb, and Mg)

Speaker
Xin Shi

14:45-15:00

Quantum Transport of Charge Density Waves

Speaker
Mr Johnathan Sanderson

15:00-15:15

Spectroscopic Determination of Electronic and Magnetic key energy scales of Chromium Trihalides

Speaker
Chamini Pathiraja

15:15