

Theme: Condensed Matter Physics and Optics

Day-I: 18th January 2022

Introduction: Dr Anisa Qamar (Past-President PPS)

Chair: Dr. G. Murtaza

1530-1600: Opening Remarks by

1. Founding President PPS
2. IUPAP President

Theme: Progress in Physics

Chair: Professor G Murtaza, Founding President PPS

Keynote Speakers

Talk#	Time	Speaker	Title
I	1600-1700	Prof Dr Steve Cowley	Bringing Down the Cost and Scale of Fusion Energy
II	1700-1800	Prof Ian Shipsey	Advances in High Energy and Astrophysics
III	1800-1900	Prof Irfan Siddiqi	The Dawn of Quantum Computing
IV	1900-2000	Prof Dr Jocelyn Bell Burnell	Developments in astrophysics in the last 100 years

Day-II: 19th January 2022

Chair: Prof Sabieh Anwar

Program

Talk#	Time	Speaker	Title
I	1500-1600	Cathy Foley	Keynote
II	1600-1700	Yarjan Abdul Samad	Keynote
III	1800-1900	Kashif Sabeeh	Topological Phase Transitions and Topological Transport in Materials
IV	1900-1930	M. Zaryab	Effect of temperature on frequency dependent charge transport in $\text{Nd}_{0.4}\text{Ca}_{0.6}\text{MnO}_3\text{O}$

Day-III: 20th January 2022

Chair: Prof Kashif Sabeeh

Program

Talk#	Time	Speaker	Title
I	1500-1600	Giovanni Volpe	Keynote
II	1600-1700	Fouzia Jabeen	III-V semiconductors: platform for photonic and optoelectronic devices and beyond
III	1800-1830	D. Parajuli	RHEED analysis of the oxidized $\text{M}'_2\text{M}''\text{xXy}$ sheets by ablated plasma thrust method in pulsed laser deposition chamber
IV	1830-1900	Sudip Adhikari	Singled Walled Carbon Nanotube Dispersion
V	1900-1930	M Sajid	Localization, Revivals, and Ballistic

			spread in One-dimensional Electric Quantum Walks
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Day-IV: 21st January 2022

Chair: Prof N M Butt

Program

Talk#	Time	Speaker	Title
I	1500-1600	Ruwan Chandra Gopura	Keynote
II	1600-1700	Tarik Cysne	Casimir-Polder Effect and Quantum Reflection in 2D materials
III	1800-1830	Muhammad Sabbtain Abbas	Asymmetric carrier transport and weak localization in few layer Graphene grown directly on dielectric substrate
IV	1830-1900	Jasra	Hexagonal warping induced nonlinear Hall effects in topological insulator Bi ₂ Te ₃
V	1900-1930	Syed Adnan Raza	Dynamic magnetic response of exchange-biased Co ₂ FeAl /IrMn nanostructures