

## Theme: Plasma Physics

**Day-I: 18<sup>th</sup> 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: 19<sup>th</sup> January 2022**

Chair: Professor Hassan Amir Shah

### Program

Talk#	Time	Speaker	Title
I	1500-1600	Dr David Riley	Warm Dense Matter
II	1600-1700	Prof Luis Silva	Extreme Plasma Physics in the Lab and in Astrophysics
III	1800-1830	M N Sundar	A Multifrequency Study of the Circum-Nuclear Environment of Nearby Active Galactic Nuclei
IV	1830-1900	Zakia Rahim	Effects of Exchange Interaction on Spin Acoustic Waves with Separated Spin Evolution in Spin Polarized Quantum Plasma
V	1900-1930	Shahab Khan	Photoemission time delay in laser assisted photo ionization

**Day-III: 20<sup>th</sup> January 2022**

Chair: Professor Riaz Ahmad

### Program

Talk#	Time	Speaker	Title
I	1500-1600	Prajval Shastri	Beacons Across Cosmic Time: Supermassive Black Holes and Galaxy Evolution

II	1600-1700	Prof Igle Gledhill	Accelerating Flow Physics: A Background to Some Strange Effects in Fluids
III	1800-1830	M. Shamir	Charged Particle energization during magnetic reconnection in earth's Magnetosphere by double layers: A magnetic Reconnection
IV	1830-1900	Dr. Azhar Hussain	Oblique Bernstein Wave Propagation in Electron-Ion Plasma with Electron Quantization Effects
V	1900-1930	M Asif Shakoor	Effects of Electric Field on Diffusion Co-efficients and Share Viscosity in Dusty Plasma

#### **Day-IV: 21<sup>st</sup> January 2022**

Chair: Professor Waqas Masood

#### **Program**

<b>Talk#</b>	<b>Time</b>	<b>Speaker</b>	<b>Title</b>
I	1500-1600	Ioannis Kourakis	Nonlinear Plasma Science - Some Recent Results and State of the Art
II	1600-1700	MinSup Hur	Terahertz Radiation from Plasma Oscillation
III	1800-1830	Maria	Envelop Solitons in Weakly Dissipative Dusty Quantum Plasma
IV	1830-1900	Rakib Khan	Dust-ion-acoustic waves in a $\kappa$ -nonthermal magnetized collisional dusty plasma with opposite polarity dust
V	1900-1930	Muazma Aisha	Arbitrary Amplitude Dust Acoustic Solitary Waves in Magnetized Two Temperature Plasma

#### **Concluding:**

President PPS