

Plenary Sessions

Earth Sciences Auditorium, Quaid-i-Azam University, Islamabad

Monday, November 9

08:45 – 09:30 Registration

09:30 – 10:00 Inauguration

Chair: Asghar Qadir

10:00 – 10:50 Pervez Hoodbhoy Foreman Christian College, Lahore

New mathematics for old physics

10:50 – 11:30 Tea

Chair: Kashif Sabeeh

11:30 – 12:20 Yafis Barlas University of California, Riverside, USA

Dissipation-less edge currents in two-dimensional crystal: Role of topology

12:20 – 01:05 Zouhair Mouayn Sultan Moulay Slimane University, Morocco

Coherent states for Landau levels on two-dimensional surfaces

01:05 – 02:20 Lunch

Tuesday, November 10

Chair: Adnan Bashir

09:15 – 10:05 Fayyazuddin Quaid-i-Azam University, Islamabad

Lepton Flavor violating muon and tau decays

10:05 – 10:55 Ahmed Ali DESY, Hamburg, Germany

Multiquark Hadrons - A new facet of QCD

10:55 – 11:15 Tea

11:15 – 11:25 Messages on the Birthday of Prof. Riazuddin

Chair: Viqar Husain

11:25 – 12:15 Maulik Parikh Arizona State University, Phoenix, USA

The dual origins of gravity

12:15 – 01:05 Mehmet Koca Sultan Qaboos University, Al-Khoud, Oman

Coxeter-Weyl groups and quasicrystals

01:05 – 02:20 Lunch

Wednesday, November 11

Chair: Yafis Barlas

09:45 – 10:35 Hassan Raza Centre for Fundamental Research

The bottom-up approach towards nanoelectronics

10:35 – 11:25 Viqar Husain University of New Brunswick, New Brunswick, Canada

Time, vacuum energy, and the cosmological constant

11:25 – 11:45 Tea

Chair: Asghar Qadir

11:45 – 12:35 Amer Iqbal Lahore University of Management Sciences, Lahore

Instanton-monopole correspondence from M-branes

12:35 – 01:05 Muhammad Sharif University of the Punjab, Lahore

Gravitational lensing in a string cloud background

01:05 – 02:20 Lunch

Thursday, November 12

Chair: Shahin Rouhani

09:15 – 10:05 Adnan Bashir University of Michoacan, Morelia, Mexico

Understanding pion from quarks and gluons: QCD versus experiment

10:05 – 10:55 Kazuharu Bamba Fukushima University, Fukushima City, Japan

Inflationary universe in fluid description

10:55 – 11:15 Tea

Chair: Amer Iqbal

11:15 – 12:05 Asghar Qadir National University of Sciences and Technology, Islamabad

Frequency Shift in the CMBR due to Intervening Galaxies

12:05 – 12:35 Ugur Camci Akdeniz University, Antalya, Turkey

Symmetry analysis of the Klein-Gordon equation in pp-wave spacetimes

12:35 – 01:05 Davood Momeni Eurasian National University, Astana, Kazakhstan

Holographic entanglement entropy in 2D holographic superconductor

01:05 – 02:20 Lunch

Friday, November 13

Chair: Davood Momeni

09:15 – 10:05 Teoman Ozer Istanbul Technical University, Istanbul, Turkey

Theoretical analysis of heat transfer equation by transformation methods

10:05 – 10:55 Shahin Rouhani Sharif University of Technology and IPM, Tehran, Iran

Scale versus conformal invariance for ultra-relativistic theories

10:55 – 11:15 Tea

Chair: Teoman Ozer

11:15 – 12:05 Mohammad Akbar University of Texas, Dallas, USA

TBA

12:05 – 12:35 Chaudry Masood Khalique North-West University, Mmabatho,
South Africa

Group analysis of a hyperbolic Lane-Emden system

12:35 – 01:05 İsmail Boztosun Akdeniz University, Antalya, Turkey

Photonuclear reactions for the determination of energy levels and half-lives of proton rich nuclei

01:05 – 02:20 Lunch

Saturday, November 14

National Centre for Physics Auditorium

Chair: Masood Khalique

10:30 – 11:00 Jameel-Un Nabi GIK Institute of Engineering Sciences and Technology,
Topi

Electron capture cross section for supernova simulation

11:00 – 11:30 Ghulam Shabbir GIK Institute of Engineering Sciences and Technology,
Topi

Affine symmetry using the rank of the Riemann tensor

11:30 – 11:50 Ahmet Bakkaloglu M.S.G.S.U FEN-ED, Istanbul, Turkey

Invariant approach to optimal investment-consumption problem: the constant elasticity of variance (CEV) model

Chair: Ugur Camci

11:50 – 12:10 Fazeel Mahmood Khan Institute of Space Technology, Islamabad.

Moving towards direct detection of gravitational waves - a binary supermassive black hole coalescence scenario

12:10 – 12:30 Aydın Yildirim Akdeniz University, Antalya, Turkey

Geodesics of some pp-wave spacetimes in polar coordinates

12:30 – 12:50 Najmeh Al-Sadat Mazhari Eurasian National University, Astana,
Kazakhstan

Entanglement Entropy for non-equilibrium 2D holographic superconductor

12:50 – 02:30 Closing Ceremony & Lunch