

Program of Parallel Sessions

Monday, November 09, 2015

Parallel Session I

Earth Sciences Auditorium, QAU

Chair: M. Jamil Aslam

Speaker	Title	Time
Ghulam Abbas COMSATS Institute of Information Technology, Sahiwal	Compact stars in general relativity and modified theories of gravity.	2:20-2:40
Muhammad Zubair COMSATS Institute of Information Technology, Lahore	Cosmological reconstruction in $f(R, T)$ theory of gravity.	2:40-3:00
Ahmed Ali DESY, Hamburg, Germany	Rare decay $B^\pm \rightarrow \pi^\pm l^+ l^-$ in the SM & beyond	3:00-3:40

Tea Break (3:40-4:00)

Chair: Muhammad Sharif

Speaker	Title	Time
Askar Ali Quaid-i-Azam University, Islamabad	Effective temperature of Kerr black hole.	4:00-4:20
Bushra Majeed SNS, National University of Science and Technology, Islamabad	A slowly rotating black hole in Horava-Lifshitz gravity and a 3 + 1 dimensional topological black hole: motion of particles and BSW mechanism.	4:20-4:40
Naila Amir SNS, National University of Science and Technology, Islamabad	Algebraic solutions of quantum mechanical systems with position dependent effective mass.	4:40-5:00
Samra Maqsood Quaid-i-Azam University, Islamabad	Thermodynamics of a non-Kerr rotating black hole.	5:00-5:20
Athar Hussain COMSATS Institute of Information Technology, Islamabad	Mid-latitude anticyclones and climate of Pakistan.	5:20-5:40

Monday, November 09, 2015

Parallel Session II

NCP Room 109

Speaker	Title	Time
Hassan Raza	Novel Devices based on Graphene Nanostructures	2:20-3:00
R. Nasir	Magnetothermoelectric Transport in Graphene	3:00-3:40

Tea Break (3:40-4:00)

Tuesday, November 10, 2015

Parallel Session I

NCP Auditorium

Chair: Azad Siddiqui

Speaker	Title	Time
Mansoor Ur Rehman Quaid-i-Azam University, Islamabad	Supersymmetric Hybrid Inflation in Pati-Salam Model	2:20-2:40
Faisal Munir Bhutta Institute of High Energy Physics, Beijing, China	Introduction to Randall-Sundrum Model	2:40-3:00
M Zaeem-Ul-Haq Bhatti University of the Punjab, Lahore	Role of Some physical factors on the stability of collapsing system.	3:00-3:20
Sehrish Iftikhar University of the Punjab, Lahore	Polytropic thin shell collapse.	3:20-3:40

Tea Break (3:40-4:00)

Chair: Ali Paracha

Speaker	Title	Time
Ishtiaq Ahmed National Centre for Physics, Islamabad	Flavor physics a yard stick for new physics.	4:00-4:20
Babar A. Qureshi Lahore University of Management Sciences, Lahore	Ground state energy of the universe and the cosmological constant.	4:20-4:50
Sarah Elahi Quaid-i-Azam University, Islamabad	Effective temperature of Reissner-Nordstrom black hole.	4:50-5:05
Iqra Nawazish University of the Punjab, Lahore	Chaotic inflationary universe in $f(R)$ gravity.	5:05-5:20

Tuesday, November 10, 2015

Parallel Session II

NCP Room 109

Speaker	Title	Time
Yafis Barlas University of California, Riverside, USA	Topological states of matter.	2:30-3:10
M. Ahsan Zeb Quaid-i-Azam University, Islamabad	Topological polaritons	3:10-3:40

Tea Break (3:40-4:00)

Speaker	Title	Time
A. Ullah	Optical properties of topological insulator thin films.	4:00-4:30
U. Hasan	Dynamical localization in double quantum dots.	4:30-5:00

Tuesday, November 10, 2015

Parallel Session III

NCP Room 108

Chair: Chaudry Masood Khalique

Speaker	Title	Time
Taha Aziz University of the Witwatersrand, Johannesburg, South Africa	Group theoretical analysis and invariant solutions for time-dependent flow model of a non-Newtonian fluid.	2:20-2:40
Zaheer-ud-Din CECOS University, Peshawar	RBF solution method of 1D oscillatory Fredholm integral equations having kernel function free of stationary-points.	2:40-3:00
Hajia Naseem University of Engineering and technology, Peshawar	Numerical solutions of reaction diffusion Pde's arising in electronegative plasma.	3:00-3:20

Tea Break (3:40-4:00)

Chair: Zouhair Mouayn

Speaker	Title	Time
Aeeman Fatima University of the Witwatersrand, Johannesburg, South Africa	A note on the integrability of a remarkable static Euler– Bernoulli beam equation.	4:00-4:20
Muhammad Ayub COMSATS Institute of Information Technology, Abbottabad	Algebraic linearization for differential equations.	4:20-4:40

Wednesday, November 11, 2015

Parallel Session I

NCP Auditorium

Chair: Ismail Boztosun

Speaker	Title	Time
Işıl Başaran Öz Akdeniz University, Antalya, Turkey	Noether gauge symmetries of Bianchi I spacetimes in scalar-coupled gravity theories	2:20-2:40
Rizwan Khalid National University of Science and Technology, Islamabad	The Higgs Boson, the top quark and Yukawa Unification	2:40-3:00

Tea Break (3:40-4:00)

Wednesday, November 11, 2015

Parallel Session II

NCP Room 109

Speaker	Title	Time
Muhammad Tahir University of Sargodha, Sargodha	Tuning thermoelectric properties of Topological insulators.	2:20-3:00
A. Yar	Radiation assisted transport in two-dimensional electron gas.	3:00-3:40

Tea Break (3:40-4:00)

Wednesday, November 11, 2015

Parallel Session III

NCP Room 108

Chair: Kazuharu Bamba

Speaker	Title	Time
Saadia Mumtaz Punjab University, Lahore	Stability of thin-shell wormholes.	2:20-2:40
Zeeshan Yousaf Punjab University, Lahore	Causes of inhomogeneous energy density in relativistic fluids with $f(R)$ background.	2:40-3:00
Wajeaha Pervaiz SNS, National University of Science and Technology, Islamabad	Gravitational lensing in the strong field limit.	3:00-3:20
Azka Younus National University of Science and Technology, Islamabad	Strong gravitational lensing by Kiselev black hole.	3:20-3:40

Tea Break (3:40-4:00)

Friday, November 13, 2015

Parallel Session I

NCP Auditorium

Chair: Ghulam Shabbir

Speaker	Title	Time
Graham S. Hall University of Aberdeen, Aberdeen, UK	Some remarks on Einstein's geodesic postulate.	2:20-2:50
M. Ali Paracha National University of Science and Technology, Islamabad	Heavy to Light meson transition form factors and applications.	2:50-3:10
Abdur Rehman National Center for Physics, Islamabad	Charm quark effects at NNLO QCD contributions to $\mathcal{B}(\bar{B} \rightarrow X_S \gamma)$	3:10-3:30
Rafia Sarwar COMSATS Institute of Information Technology, Islamabad	Dark matter, its detection and possible candidates.	3:30-3:40

Tea Break (3:40-4:00)

Chair: Mansoor Ur Rehman

Speaker	Title	Time
Ayesha Ikram University of the Punjab, Lahore	Warm Inflation in f(G) gravity.	4:00-4:20
M. Zubair Ali Moughal Quaid-i-Azam University, Islamabad, Pakistan	Effects of accreting mater on the mass of black holes.	4:20-4:40
Muhammad Abdul Wasay University of Agriculture, Faisalabad	Spectrum of supersymmetric and bosonic open 2-brane.	4:40-5:00

Friday, November 13, 2015

Parallel Session II

NCP Room 108

Chair: Faisal Munir Bhutta

Speaker	Title	Time
Mureed Hussain SNS, National University of Science and Technology, Islamabad	New physics constraints from $B \rightarrow K^* \mu^+ \mu^-$ on flavor symmetry-based MSSM.	2:20-2:40
Rabia Saleem University of the Punjab, Lahore	Dynamics of inflationary universe models	2:40-3:00
Suleman Khalid Quaid-i-Azam, Islamabad	Stability of orbits around black holes.	2:50-3:10
M. Farasat Shamir National University of Computer & Emerging Sciences, Lahore	Exact solutions of LRS Bianchi type I spacetime in $f(R, T)$ gravity.	3:20-3:40

Tea Break (3:40-4:00)

Chair: Asghar Qadir

Speaker	Title	Time
Muhammad Mansoor Khan University of Wah, Wah Cantt	Physics of simulation machines: The event generators.	4:00-4:20
Afifa Hussain University of Wah, Wah Cantt	Investigation of phenomenological approaches implemented in PYTHIA.	4:20-4:40
Muhammad Usman National University of Science and Technology, Islamabad	Dark energy via multi-Higgs doublet models: accelerated expansion of the Universe in inert doublet model scenario	4:40-5:00

Friday, November 13, 2015

Parallel Session III

NCP Room 109

Chair: Jameel-Un Nabi

Speaker	Title	Time
Hina Dutt National University of Science and Technology, Islamabad	Linearization and group classification of ordinary differential equations.	2:20-2:40
Abdul Hanan Sheikh QUEST Nawabshah	Multilevel Helmholtz solver with applications in seismic imaging	2:40-3:00
Fakhra Ghafoor University of Wah, Wah Cantt	Simulations of minimum bias and underlying events using different PDEs.	3:00-3:20
Syed Qamar Abbas Shah Quaid-i-Azam University, Islamabad	Significance of phonon modes and excess conductivity of $(\text{Cu}_{0.5}\text{Ti}_{0.5})\text{Ba}_2\text{Ca}_3(\text{Cu}_{4-x}\text{Ti}_x)\text{O}_{12-\delta}$ ($x = 0, 0.25, 0.50, 0.75, 1.0$) superconductors.	3:20-3:40

Tea Break (3:40-4:00)

Chair: Taha Aziz

Speaker	Title	Time
Sajad H. Sandilo QUEST, Nawabshah, Sindh	On damping properties of an axially transporting beam.	4:00-4:20
Tallat Sohail Air University, Islamabad	Development of novel genetic algorithm to solve first & second order initial value problems.	4:20-4:40
Roman Ullah Bacha Khan University, Charsadda	Mathematical modelling of some infectious diseases.	4:40-5:00