

Technical Program

Radiation Matter Interaction (RMI)

International School on Physics & Allied Disciplines (ISPAD)-2021 (March 09-11, 2021)

National Centre for Physics (NCP), Islamabad, Pakistan

Tuesday March 09, 2021	Wednesday March 10, 2021	Thursday March 11, 2021
Opening Session 09:30 – 09:45	Hantao Ji (PP) (Plenary talk) 09:00 – 09:45	Kyunghwan Oh (RMI) (Plenary Talk) 09:30 – 10:00
Ioannis Kourakis (PP) (Plenary talk) 09:45 – 10:30	Sajid Hussain (RMI) 09:45 – 10:15	Haibo Peng (Invited Talk) 10:00-10:30
Wang Tieshan (RMI) (Plenary talk) 10:30 – 11:00	Javed Iqbal (RMI) (Invited Talk) 10:15 – 10:45	Sameer Salam (Invited Talk) 1030 – 11:00
Tea Break (11:00-11:30)	Tea Break (10:45-11:30)	Tea Break (11:00-11:30)
Hassan Mehmood Khan (RMI) 11:30 – 12:00	Sulaiman Wadi Harun (RMI) (Invited Talk) 11:30 – 12:00	Shehla Honey (RMI) (Invited Talk) 11:30 – 12:00
M. Shahid (RMI) 12:00 – 12:30	Ahmad Haziq Aiman (RMI) 12:00 – 12:30	Atif Hussain (RMI) 12:00 – 12:30
Lunch Break (12:30-14:00)	Lunch Break (12:30-14:00)	Lunch Break (12:30-13:30)
Michael Bonitz (PP) (Plenary talk) 14:00 – 14:45	Dimitri Batani (PP) (Plenary talk) 14:00 – 14:45	Natko Skukan (RMI) (Plenary talk) 13:30 – 14:00
J. T. Mendonca (PP) (Plenary talk) 14:45– 15:30	Parviz Elahi (RMI) (Invited talk) 14:45 – 15:15	John M. Dudley (RMI) (Plenary talk) 14:00 – 14:30
Walid Tawfik (RMI) (Invited Talk) 15:30 – 16:00	Mahmoud Izerrouken (RMI) (Invited talk) 15:15 – 15:45	Vincenzo Palleschi (RMI) (Plenary talk) 14:30 – 15:00
Christophe Finot (RMI) (Invited Talk) 16:00 – 16:30	Samson Olatubosun Aisida (RMI) (Invited talk) 15:45 – 16:15	Sorokin Michael (RMI) (Plenary talk) 15:00 – 15:30
Raphael Mmaduka Obodo (RMI) (Invited Talk) 16:30 – 17:00	M. Imtiaz Khan (RMI) 1615 – 1645 hrs Poster Session/Discussion 16:45-17:45	Closing Remarks

All timings are according to Pakistan Standard Time.

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<i>Time</i>	<i>Titles</i>	<i>Speaker</i>
Day 1, 09 March 2021 (Tuesday)		
10:30-11:00	Introduction of Ion Beam Applications (<i>Plenary Talk</i>)	Prof. Dr. Wang Tieshan (China)
11:30-12:00	Irradiation Effects on Magnetic Materials	Dr. Hassan Mehmood Khan (Pakistan)
12:00-12:30	Ion Beam Activation of ^{nat} Ti, ^{nat} Cu, ^{nat} Ni Foil and Study of Production Cross-Sections of Reaction Products	Dr. Muhammad Shahid (Pakistan)
15:30-16:00	Spectroscopic studies of bulk copper using picosecond LIBS. (<i>Invited Talk</i>)	Prof. Dr. Walid Tawfik (Egypt)
16:00-16:30	Nonlinear pulse shaping : a versatile tool for ultrafast photonics and a building block of nonlinear fiber dynamics (<i>Invited Talk</i>)	Prof. Dr. Christophe Finot (France)
16:30-17:00	Carbon (C++) ions irradiation of Graphene Oxide enhanced MnO ₂ -NiO-ZnO Nanocomposites for Supercapacitor Electrode (<i>Invited Talk</i>)	Mr. Raphael Mmaduka Obodo (Nigeria)
Day 2, 10 March 2021 (Wednesday)		
09:45-10:15	Performance of composite electrolyte using In-situ UV irradiation for Lithium battery applications	Dr. Sajid Hussain (Pakistan)
10:15-10:45	Laser Induced breakdown spectroscopy as an Emerging techniques for Mineral Exploration: Measuring the concentration and LOD of gold in ore samples (<i>Invited Talk</i>)	Dr. Javed Iqbal (Canada)
11:30-12:00	Generation of ultrashort laser pulses in Neodymium-doped and Erbium-doped fiber laser cavities. (<i>Invited Talk</i>)	Prof. Dr. Sulaiman Wadi Harun (Malaysia)
12:00-12:30	High Power ytterbium-doped Fiber laser and its characterization	Mr. Ahmad Haziq Aiman (Malaysia)
14:45-15:15	High speed low energy fiber lasers for material processing and micro-machining (<i>Invited Talk</i>)	Prof. Dr. Parviz Elahi (Turkey)

15:15-15:45	Radiation induced damage in ionic solids (<i>Invited Talk</i>)	Prof. Dr. Mahmoud Izerrouken (Algeria)
15:45-16:15	Carbon ions irradiation induced defects analysis and effects on optical properties of TiO ₂ Nanoparticles (<i>Invited Talk</i>)	Dr. Samson Olatubosun Aisida (Nigeria)
16:15-16:45	Synchrotron-based magnetization dynamics studies	M. Imtiaz Khan (Pakistan)
Day 3, 11 March 2021 (Thursday)		
09:30-10:00	Fiber Laser: A game-changer in light-matter interaction science and technology (<i>Plenary Talk</i>)	Prof. Dr. Kyunghwan Oh (South Korea)
10:00-10:30	Radiation effects in glasses	Prof. Haibo Peng (China)
10:30-11:00	Potentials of organic materials as Saturable Absorber in pulsed fiber lasers	Sameer Salam (Malaysia)
11:30-12:00	Interaction of ions beam with metal nanowires (<i>Invited Talk</i>)	Dr. Shehla Honey (Pakistan)
12:00-12:30	Optical emission improvement in laser-induced breakdown spectroscopy based on different enhancement techniques	Dr. Atif Hussain (Pakistan)
13:30-14:00	IAEA activities in utilization of neutron and ion beams (<i>Plenary Talk</i>)	Mr. Natko Skukan (Austria)
14:00-14:30	Advanced real time measurements of extreme instabilities in ultrafast Fiber Lasers (<i>Plenary Talk</i>)	Prof. Dr. John M. Dudley (France)
14:30-15:00	Laser-Induced Breakdown Spectroscopy: Principles of the technique, Applications and Future Trends (<i>Plenary Talk</i>)	Prof. Dr. Vincenzo Palleschi (Italy)
15:00-15:30	Interaction of swift ions with alkali-halide crystals (<i>Plenary Talk</i>)	Prof. Dr. Sorokin Michael (Russia)

All talks will be through Webinar (ZOOM) according to Pakistan Standard time.

RMI Co-ordinators:

Dr. Rizwan Ahmed; E-mail: rizwan.ahmed@ncp.edu.pk, riz.phy@gmail.com

Mr. Turab Ali Abbas; E-mail: aliturabb@yahoo.com