

International Conference on

SPACE SCIENCE AND TECHNOLOGY

Dubai, UAE

November 20-21, 2024



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7 Bell Yard, London

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CONFERENCE PROGRAMME

DAY 1 - NOVEMBER 20, 2024

Meeting Hall: Meeting Hall 3	
9.00 - 9.45	Registrations
9:45 - 10:00	Opening Ceremony and Introduction
Keynote Presentations	
10.00 - 10.40	
Title: Impact of Federated Learning in Remote Sensing Alavikunhu Panthakkan, University of Dubai & Research Supervisor - Mohammed Bin Rashid Space Center Lab, UAE	
10.40 - 11.20	
Title: Thermal Analysis of High-silica Glass Fiber Composites Reinforced with Nanofillers for Aerospace Applications Sarath Raj, Amity University, UAE	
Networking & Refreshments: 11.20 - 11.40 @Meeting Room 5 Assembly Area	
11.40 - 12.20	
Title: Electronic Structure Theory within A CCG-Based DFT for Atoms/Molecules Amlan Kusum Roy, Indian Institute of Science Education and Research (IISER) Kolkata, India	
12:20 - 13:00	
Title: High-altitude Balloon Satellite for Climate Change Arpit Dugar, Lab of Future, UAE	
Group Photo 13.00 - 13.10	
Lunch: 13.10 - 14:00 @The Great Room Restaurant	
Oral Presentations	
Session Chair	Alavikunhu Panthakkan , University of Dubai, UAE & Research Supervisor - Mohammed Bin Rashid Space Center Lab, UAE
Sessions	Physics Astronomy Space Technology Satellite IoT Nuclear Physics Remote Sensing Applications Space Missions Aerospace Engineering High-Energy Astrophysics Black Hole Astrophysics Cosmology Galactic Astronomy Chemical physics Space Physics Condensed Matter Physics Science, Technology and Engineering Satellite communication Interstellar Travel and Exploration Optical Astronomy Earth and Planetary science Planetary Geoscience.

14.00 - 14.25

Title: Anticorrosion Properties of DGEBA Epoxy Resin Functionalized with G, GO and rGO: DFT Approach

Hend Ahmed Mohamed Ezzat, National Research Institute of Astronomy and Geophysics (NRIAG), Egypt

14.25 - 14.50

Title: Improving The Accuracy of Direct Measurements of Cosmic Rays (TeV and Beyond)

Anastasiya Fedosimova, Institute of Physics and Technology, Satbayev University, Kazakhstan

14.50 - 15.15

Title: Novel Strategy for Refunctionalizing Carbon-based Nanosheets for Utilization in Photovoltaic Cells *via* Plasma Surface Modification

Mohamed Abdelhamid Mohamed Shahat, National Research Institute of Astronomy and Geophysics (NRIAG), Egypt

15.15 - 15.40

Title: Educational Aspects of Moscow University Space Project Sozvezdie-270

Vladislav I. Osedlo, M.V. Lomonosov Moscow State University, Russia

15.40 - 16.05

Title: Results of Space Weather Effects and Cosmic Gamma-ray Burst Monitoring with the Use of Moscow University Nano-Satellite

S.I. Svertilov, M.V. Lomonosov Moscow State University, Russia

Networking & Refreshments: 16:05 - 16:30 @Meeting room 5 Assembly Area

Poster Presentations

Poster -1

Title: Measurement of Cosmic Microwave Background Radiation Temperature at $Z=0.89$ Using Quasar Absorption Lines

Tatsuya Kotani, Keio University, Japan

Poster -2

Title: Millimeter and Submillimeter-wave Molecular Line Observations toward the GeV Gamma-Ray Source Associated with SS433/W50 System

Ryo Ariyama, Keio University, Japan

Poster -3

Title: Kinematical Study of The High-velocity Compact Cloud Co-0.26+0.02 at the Galactic Center

Lehan Zhou, Keio University, Japan

Poster -4

Title: Discovery of a Stellar Vertical Velocity Anomaly associated with The Broad-Velocity-Width Molecular Feature CO 16.134-0.553 - Signature of A Dark Matter Subhalo Plunged into The Galactic Disk?

Ken Udagawa, Keio University, Japan

Poster -5

Title: Detection of a Clear Sinusoidal Variation in The Millimeter Flux of Sgr A*

Kazuki Yanagisawa, Keio University, Japan

Day-1 Concludes followed by Award Distribution



DAY 2 - NOVEMBER 21, 2024

Meeting Hall: Meeting Hall 3

Keynote Presentations

10.00 - 10.40

Title: Electrostatic Solitary Waves in Earth's Magnetosphere: Insights into Plasma Dynamics
Steffy Sara Varghese, Amity University, UAE

10.40 - 11.20

Title: An Overview of the Current Research Activities at Khalifa University Space Technology & Innovation Laboratory (KUSTIL)
Immanuel Paul, Khalifa University, UAE

Networking & Refreshments: 11:20 - 11:40 @Meeting Room 5 Assembly Area

11.40 - 12.20

Title: Manipulation of a 3D Bluff Body Wake - What do we know about the Governing Mechanisms?
Vladimir Parezanovic, Khalifa University, UAE

12:20 - 13:00

Title: Gravitational Shielding and The Physics of Mutual Shielding
Radzhabov Toir Makhsudovich, Tajik National University, Tajikistan

Lunch: 13.00 - 14:00 @The Great Room Restaurant

Oral Presentations

Session Chair Steffy Sara Varghese, Amity University, UAE

Sessions

Physics | Astronomy | Space Technology | Satellite IoT | Nuclear Physics| Remote Sensing Applications | Space Missions| Aerospace Engineering | High-Energy Astrophysics | Black Hole | Astrophysics | Cosmology | Galactic Astronomy | Chemical physics | Space Physics | Condensed Matter Physics | Science, Technology and Engineering| Satellite communication | Interstellar Travel and Exploration | Optical Astronomy | Earth and Planetary science | Planetary Geoscience.

14.00 - 14.25

Title: Payloads for Space Gamma-Radiation Study on Launched and Planed MSU Cubesats
Vitalii Bogomolov, M.V. Lomonosov Moscow State University, Russia

Video Presentations

14.25 - 14.45

Title: Applying Multidisciplinary Geosciences for Ironstone Deposit Characterization in the Gulu Area, Nupe Basin North-Central, Nigeria

Yusuf Tanko Usman, Ibrahim Badamasi Babangida University, Nigeria

14.45 - 15.05

Title: Non-Resonant Exponential Nikitin Models with Decay

Kammogne Djoum Nana Anicet, University of Dschang, Cameroon

15.05 - 15.25

Title: Artificial Intelligence in IoT Security: A Focus on the Best Algorithm

Meziane Hind, ACSA Lab, Mohammed Premier University, Morocco

15.25 - 15.45

Title: Stress Analysis of Thick FGM Plate under Thermo-mechanical Loads

Yuwaraj Marotrao Ghugal, Veermata Jijabai Technological Institute, India

Networking & Refreshments: 15:45 - 16:15 @Meeting room 5 Assembly Area

Day-2 Concludes followed by Award Distribution and Vote of Thanks



VIRTUAL PROGRAMME

DAY 1- NOVEMBER 20, 2024 (GMT)

9.45-10.00	Opening Ceremony and Introduction
Keynote Presentations	
10.00 - 10.25	<p>Title: Near-equatorial Cubesats as Disruptive Enablers for Environmental Monitoring Over the Tropics</p> <p>Erick Lansard, Nanyang Technological University, Singapore</p>
10.25 - 10.50	<p>Title: Unveiling the Potential of AI and ML in Major Depressive Disorder Treatment</p> <p>Anamika Gulati, Jawaharlal Nehru University, India</p>
10.50 - 11.15	<p>Title: Saturn’s Magnetism in the Origin of Rings and the Repulsion Force of Ice Chunks Maxwell Predicted in 1856</p> <p>Vladimir V. Tchernyi, Modern Science Institute, SAIBR, Russia</p>
11.15 - 11.40	<p>Title: Exploring Stellar Dynamics and Membership in Pismis Open Clusters with Gaia EDR3 Data</p> <p>Devendra Bisht, Indian Centre for Space Physics, India</p>
Oral Presentations	
11.40 - 12.00	<p>Title: Applying Multidisciplinary Geosciences for Ironstone Deposit Characterization in The Gulu Area, Nupe Basin North-Central, Nigeria</p> <p>Yusuf Tanko Usman, Ibrahim Badamasi Babangida University, Nigeria</p>
12.00 - 12.20	<p>Title: The Cosmic Mask-Unthreading the Dynamics of Universe</p> <p>Ratnesh Dwivedi, ESJ-Paris and Ural Federal University, Russia</p>
12.20 - 12.40	<p>Title: Solid Waste Disposal Site Selection using GIS-Based Multi-Criteria Decision Analysis Techniques: A Case Study in Areka Town, Wolaita Zone, Ethiopia</p> <p>Adimasu Tafesse, Wollega University, Ethiopia</p>

12.40 - 13.00

Title: Path and Path Deviation for Objects in type Theories of Metric Affine Gravity

Magd E.Kahil, MSA-University, Egypt

13.00 - 13.20

Title: CubeSats' Hands-on Training Package

Mehran Mirshams, K.N. Toosi University of Technology, Space Research Lab, Iran

13.20 - 13.40

Title: Thermodynamic Properties Data of Ternary System $\text{NH}_4\text{Cl-NH}_4\text{H}_2\text{PO}_4\text{-H}_2\text{O}$ At 298.15 K Including the Solubility Data

Wiam EL FADEL, Mohammed V University in Rabat, Morocco

13.40 - 14.00

Title: Unveiling the Dusty Torus in Early type Galaxies

Jacopo Fritz, IRyA-UNAM, Mexico

Poster Presentations

PP001

Title: Prospects for the use of AI in Deep Space Exploration

Khrystyna Vasylenko, University of Life and Environmental Sciences of Ukraine, Ukraine

PP002

Title: Unidentified aerial Phenomena. Observations and Characterizations of Objects

Boris Zhilyaev, Main Astronomical Observatory of NAS of Ukraine, Ukraine

Day-1 Concludes



DAY 2 - NOVEMBER 21, 2024 (GMT)

Keynote Presentations

10.00 - 10.25

Title: Humanoid Speech Synthesis System for Space Technology

AnilKumar Chevella, VNR Vignana Jyothi Institute of Engineering and Technology, India

10.25 - 10.50

Title: Reconfigurable Next Generation NavIC Payload

Deepak Mishra, Space Applications Centre (Sac)/Indian Space Research Organization, India

10.50 - 11.15

Title: Edge shield: Attack Resistant Secure and Privacy-Aware Remote Sensing Image Retrieval System for Military and Geological Applications using Edge Computing

Arun Amaithi Rajan, College of Engineering Guindy, Anna University, India

Oral Presentations

11.15 - 11.35

Title: Transient Response of Collinear Griffith Cracks in a functionally Graded Strip Bonded Between Dissimilar Elastic Strips Under Shear impact loading

Ritika Singh, Indian Institute of Technology (BHU), India

11.35 - 11.55

Title: Monistic Field Cosmos with Correlated Self-Accelerations

Igor Bulyzhenkov, Levich Institute of Time Nature Explorations, Russia

11.55 - 12.15

Title: Aero Thermoelastic Analysis of the Functionally Graded Hypersonic Missile

Sahil Mathur, NIMS University Rajasthan, India

12.15 - 12.35

Title: An ANN-PSO Approach for Mixed Convection Flow in an Inclined tube with Ciliary Motion of Jeffrey Six Constant Fluid

Aqila Shaheen, Minhaj University, Pakistan

12.35 - 12.55

Title: Classical Wave Equation in Quantum Mechanics

Mikhail N. Sergeenko, Stepanov Institute of Physics of The National Academy of Sciences of Belarus, Belarus

12.55 - 13.15

Title: Non-Resonant Exponential Nikitin Models with Decay

Kammogne Djoum Nana Anicet, University of Dschang, Cameroon

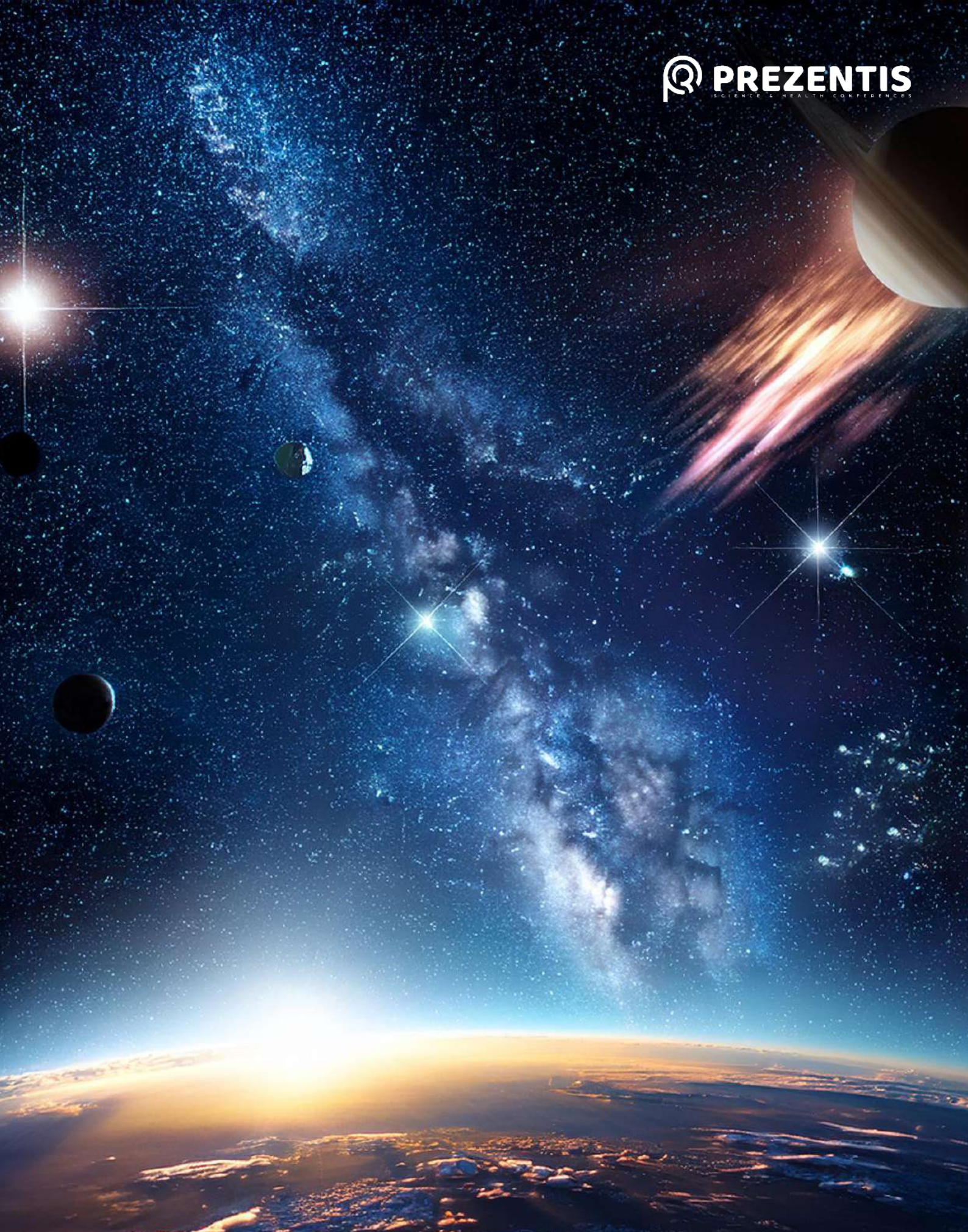
13.15 - 13.35

Title: The Role of Quarks in Nuclear Structure: Alpha-Clustering and Nucleosynthesis in Stars

Genis Musulmanbekov, Joint Institute for Nuclear Research, Russia

Day-2 Concludes with Vote of Thanks





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