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# GSGAC2023

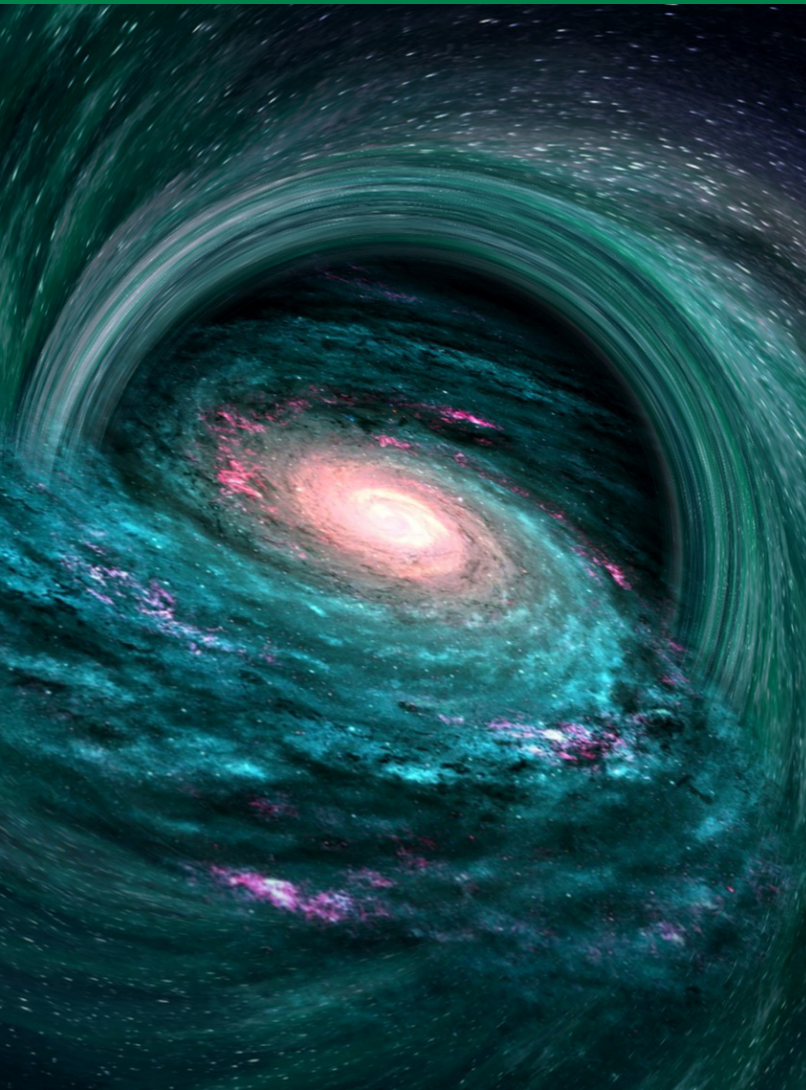
2<sup>nd</sup> Global Summit on Gravitation, Astrophysics and Cosmology

# GSEMSE2023

Global Summit and Expo on Materials Science and Engineering

**JUNE 19-20, 2023**

**Virtual**



**The Scientistt**

Bangalore, India

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# Joint Conference on Materials Science and Astrophysics

Time Zone: London, UK (GMT+1)

Day-1| Monday JUNE 19, 2023

10:00-10:40	<b>Title:</b> Sustainable Electronic Materials: Learning from Halide Perovskites <b>David Cahen</b> , Weizmann Institute of Science, Israel	P
10:40-11:05	<b>Title:</b> Accelerating Spherical Harmonic Transforms for a Large Number of Sky Maps <b>Hao Liu</b> , Anhui University, China	I
11:05-11:30	<b>Title:</b> Two-Dimensional Germanene-based Janus Material Ge <sub>8</sub> H <sub>n</sub> X <sub>8-n</sub> (n=0–8, X=F, Cl, Br, I) for Photovoltaic and Photocatalytic Applications <b>Yuliang Mao</b> , Xiangtan University, China	I
11:30-11:55	<b>Title:</b> Modification of Newtonian Gravity and its Application <b>Jianan wang</b> , Shenzhen University, China	I
11:55-12:35	<b>Title:</b> Will be Updated Soon <b>Soshu Kiriara</b> , Osaka University, Japan	P
12:35-13:00	<b>Title:</b> Machine-Learning Determination of Reaction-Diffusion Model Parameters for Dislocation Pattern Formation <b>Yoshitaka Umeno</b> , The University of Tokyo, Japan	I
13:00-13:25	<b>Title:</b> Artificial Intelligence and its Application in Astrophysics <b>Hossen Teimoorinia</b> , Canadian Astronomy Data Centre, Canada	I
13:25-13:50	<b>Title:</b> Enhanced Heterogeneous Nucleation of Al <sub>6</sub> (Fe,Mn) Compound in Al Alloys by Interfacial Segregation of Mn on TiB <sub>2</sub> Particles Surface <b>Zhongping Que</b> , Brunel University London, UK	I
13:50-14:30	<b>Title:</b> Gravity Created by an Interaction between Elementary Particles and the ZPF Field <b>Takaaki Musha</b> , Foundation of Physics Research Center, Japan	P
14:30-14:55	<b>Title:</b> Assessing Self-Reinforced Composites from Recycled Clothing Wastes as Alternative Sustainable Building Materials <b>Nattakan Soykeabkaew</b> , Mae Fah Luang University, Thailand	I
14:55-15:20	<b>Title:</b> Hybrid Stars: More Compatible with Recent Astrophysical Observations <b>Monika Sinha</b> , IIT Jodhpur, India	I
15:20-15:45	<b>Title:</b> Grafting of Polyaniline by a Dynamic Inverse Emulsion Polymerization Technique on to Membranes as an Anti-Biofouling Agent: an Innovative Approach <b>Ran Suckeveriene</b> , Kinneret Academic College on the Sea of Galilee, Israel	I
15:45-16:10	<b>Title:</b> Analytical Studies of the Generalized Reissner-Nordstrom Spacetimes <b>Orchidea Maria Lecian</b> , Sapienza University of Rome, Italy	I
16:10-16:50	<b>Title:</b> A Study of Stellar Dynamics of Virialised System <b>Brunello Tirozzi</b> , Sapienza University of Rome, Italy	P
End of Day-1		

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## Day-2| Monday JUNE 20, 2023

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**Time Zone: London, (GMT+1)**

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<b>10:00-10:40</b>	<b>Title:</b> An Inflationary Mechanism of Vacuum Energy Cancellation through Quasi-Quintessence Field <b>Orlando Luongo</b> , University of Camerino, Italy	<b>P</b>
<b>10:40-11:05</b>	<b>Title:</b> Thermal Management of Interconnects in Next Generation Logic Semiconductors <b>Tianzhuo Zhan</b> , Toyo University, Japan	<b>I</b>
<b>11:05-11:30</b>	<b>Title:</b> Unambiguous Evidence of Three Coexisting Ferroelectric Phases in a Lead-Free $\text{Li}_x\text{Na}_{1-x}\text{NbO}_3$ System: Redefining the Morphotropic Phase Boundary <b>Saurabh Tripathi</b> , Indian Institute of Technology, India	<b>I</b>
<b>11:30-11:55</b>	<b>Title:</b> A New Lemma of the Optical Equivalence Theorem and Some New Applications <b>Orchidea Maria Lecian</b> , Sapienza University of Rome, Italy	<b>I</b>
<b>11:55-12:35</b>	<b>Title:</b> Environmental Challenges for Construction Materials: Potential use of Calcined Clay in Cement <b>Lucia Ferrari</b> , University of Bologna, Italy	<b>I</b>
<b>12:35-13:15</b>	<b>Title:</b> Turbulent behavior near an X Point of a Plasma <b>Brunello Tirozzi</b> , Sapienza University of Rome, Italy	<b>P</b>
<b>13:15-13:40</b>	<b>Title:</b> Towards Efficient Feature Extraction in Data-Intensive Experiments within the PUNCH4NFDI Project <b>Andreas Redelbach</b> , Goethe University of Frankfurt, Germany	<b>I</b>
<b>13:40-14:05</b>	<b>Title:</b> Homogeneity as the beginning of the Universe <b>Jan P. Wilbert</b> , Researcher, Germany	<b>I</b>
<b>14:05-14:30</b>	<b>Title:</b> Copper Sulphide Nanomaterials: Synthesis and use as Photocatalysts for Dye Polluted Waste Water Treatment <b>Linda Dyorisse Nyamen</b> , University of Yaoundé, Cameroon	<b>I</b>
<b>14:30-15:00</b>	<b>Title:</b> Materials Design for Safer Li-ion Batteries and their Ultra Low Temperature Performance <b>Vilas G. Pol</b> , Purdue University, USA	<b>K</b>
<b>15:00-15:25</b>	<b>Title:</b> Study of Photoluminescence in Epoxy Resins Applied do Radiation Dosimetry <b>Luiz Oliveira de Faria</b> , Centro de Desenvolvimento da Tecnologia Nuclear, Brazil	<b>Poster</b>
<b>15:25-15:50</b>	<b>Title:</b> Turbulence in the Space Plasma <b>Liudmyla Kozak</b> , Kyiv Taras Shevchenko University, Ukraine	<b>I</b>
<b>15:50-16:30</b>	<b>Title:</b> Effect of Foaming on Electrical Properties of Conductive Polymer Composites <b>Chul B. Park</b> , University of Toronto, Canada	<b>P</b>
<b>16:30-16:55</b>	<b>Title:</b> Cosmology with Time-Varying Curvature - A Summary <b>John Botke</b> , Ronin Institute, USA	<b>I</b>

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**End of Conference**

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