

ICGAC2027



3rd International Conference on **GRAVITATION, ASTROPHYSICS AND COSMOLOGY**

ICGAC2027

“Exploring Gravity. Unveiling the Universe.”



Berlin, Germany



May 26-27, 2027





Day 01 - MAY 26

Day 02 - MAY 27

09:00 - 09:30

ON SPOT REGISTRATIONS



PLENARY TALKS

09:30 - 10:05

P

Title: Multiphysics: Theory and Applications

M Moatamedi, President - The International Society of Multiphysics, UK

10:05 - 10:40

P

Title: Physical AI: A Game Changer for Astrophysics and the Space Race

Paul Powers, CEO & Co-Founder - Physna, USA

10:40 - 11:15

P

Title: From Mine-to-Tailings to Moon-to-Base: AI-Driven Governance for Sustainable In-Situ Resource Utilization and Regolith Mining under Reduced Gravity

Edgar Ricardo Quiroz, Executive Chairman & CEO - Frame Limited, Peru

11:15 - 11:30

REFRESHMENT BREAK

11:30 - 12:05

P

Title: Improved Derivation of Dark Matter, MOND, Tully-Fisher, Dark Energy, their Fundamental Nature and Existence

Peter H. Handel, University of Missouri-St. Louis, USA

12:05 - 12:40

P

Title: General Relativity, Quantum Mechanics and the Nature of Existence

Klara Erika Splett, University of Missouri-St. Louis, USA

12:40 - 13:15

P

Title: AgDome as a Closed-Loop Cosmic Habitat: Integrating AI, Precision Engineering, and LMO Technology for Future Life Support

Bella Gown, CEO and Founder - AgUni Co., Ltd, South Korea

13:15 - 14:15

GROUP PHOTO & LUNCH BREAL

14:15 - 14:50

P

Title:
Slot Available

 KEYNOTE TALKS

14:50 - 14:20

K

Title: The Big Flare-Up Theory and the Six Layers of Reality: A Unified Framework from Fundamental Physics to Consciousness
Vijay Shankar Sharma, Independent Researcher, India

15:20 - 15:50

K

Title: Boltzmann’s Ledger: How Finite Counting Became a Physical Law
Ali Attar, Independent Researcher, France

15:50 - 16:20

K

Title: Observable Signatures of a Universe Thermalized by a Succession of Collisions Decelerating from Superluminal to Subluminal Closing Speeds
JM Nipok, New Jersey Institute of Technology, USA

16:20 - 16:35

REFRESHMENT BREAK

16:35 - 17:05

K

Title:
Slot Available

17:05 - 17:35

K

Title:
Slot Available

 INVITED TALKS

17:35 - 17:55

I

Title: From Equation to Interaction: Drake’s Dice as a Tool for Astrobiology Outreach
Alissa Pott, Independent Scientist and Science Communicator (Art & Outreach), Switzerland

17:55 - 18:15

1

Title:

Slot Available

18:15 - 18:35

1

Title:

Slot Available

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1

Title:

Slot Available

Video

1

Title: Science 4.0 and Cosmic Infodynamics: Modeling Invisible Gravitational Structures and Systemic Convergence in the Outer Solar System

Julien Boblique, Architect of Science 4.0, France

Video

2

Title: Preliminary Analysis of the Physical Consequences in Cosmology, Big Bang Origin and Stellar Evolution by the Experimentally Checked Expansion Center Model (ECM)

Luciano Lorenzi, Italian Astronomical Society, Italian Physical Society, Italy

Video

3

Title: The Creation and Potential of Metamaterial Wormholes for Two Points in Space and for the New Space Age - An Enhanced Perspective

Cameron Ikin, Director - Capriorne Spatial Agence, Australia

E-Poster

1

Title: A New Approach to Constructing Quantum Gravity

Felix Lev, Independent Researcher, USA

E-Poster

2

Title:

Slot Available

CLOSING THE CONFERENCE FOR DAY 1

 Kindly make a note that the tentative program may have slight changes from the final program



ICGAC2027



May 26-27, 2027

Chair - M Moatamedi, President - The International Society of Multiphysics, UK



Tentative Program

Day 01 - MAY 26

Day 02 - MAY 27

09:00 - 09:30

ON SPOT REGISTRATIONS



PLENARY TALKS

09:30 - 10:05

P

Title: Talent Stability: Strengthening the Future of the Space Workforce

Kate Appleby, Deputy Head of Space Environment, UK Space Agency, UK

10:05 - 10:40

P

Title: New Insights in Quantum Gravity

Theo Odijk, Leiden University, Netherlands

10:40 - 11:15

P

Title: Commercial Spacecraft Connectivity for LEO and Beyond: Lessons from Flight Demonstrations, Payload Networking, and Lunar Communications Development

Brian Barnett, Founder and CEO - Solstar Space, USA

11:15 - 11:30

REFRESHMENT BREAK

11:30 - 12:05

P

Title: How Commercial Power Solutions Will Enable the Lunar Economy

Diego Paldao, Senior Director-Volta Space, USA

12:05 - 12:40

P

Title: The Advanced Digital Guardian: Core Rundown

William Kennard, Founder & Lead Technologist - Advanced Digital Guardian, USA

12:40 - 13:15

P

Title: The Incompleteness of Gravitational Physics Precision Engineering, and LMO Technology for Future Life Support

Alexander Unzicker, Physicist and Author, Germany

13:15 - 14:15

GROUP PHOTO & LUNCH BREAL

14:15 - 14:50

P

Title:
Slot Available

 KEYNOTE TALKS

14:50 - 14:20

K

Title: Will be Updated Soon...
Matteo Coletta, Italian Space Agency, Italy

15:20 - 15:50

K

Title: From Extinction to Expansion: How Humanity Can Survive the Cosmos
Jason Robert Albertson, Host & Founder - Galactic Family Podcast, USA

15:50 - 16:20

K

Title: A Unified Gauge Connection With Quantum Torsion in a Teleparallel Geometry: The Inertial Constant η in Quantizing Gravity and Spin
Martin Gibson, Unified Services Enterprise, USA

16:20 - 16:35

REFRESHMENT BREAK

16:35 - 17:05

K

Title: Geometric Containment - Provenance-Based Execution Governance
Massimo Medesani, Independent Researcher & 1st Engineer of Coherence - Guest Speaker - General Agent Cattolica, Italy

17:05 - 17:35

K

Title:
Slot Available

 INVITED TALKS

17:35 - 17:55

I

Title: Will be Updated Soon...
Samuel Will, International Space University, France

17:55 - 18:15

1

Title:
Slot Available

18:15 - 18:35

1

Title:
Slot Available

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2

Title:
Slot Available

Video

4

Title: Red Shifts in Cometary Spectral Lines - Data & Theory
James McCanney, JMCC Science, USA

Video

5

Title: Astrophysics Outside Darwin's Cage
Gideon Samid, Case Western Reserve University, USA

Video

6

Title:
Slot Available

E-Poster

3

Title: A Dual-Mass Structural Model of the Neutrino: Resolving the Paradox of Zero-Mass Momentum
Schubert Maignan, Moscow State University of Civil Engineering, Russia

E-Poster

4

Title:
Slot Available

CLOSING THE CONFERENCE FOR DAY 2

 Kindly make a note that the tentative program may have slight changes from the final program