



ASTROPHYSICS2027

Global Summit on Advances in Astrophysics, Gravitation and Cosmology

May 19-20, 2027 | Florence, Italy

Day-1 May 19, 2027		
09:00-09:30	On Spot Registrations	
09:30-10:10	P	Title: The Creation and Potential of Metamaterial Wormholes for Two Points in Space and for the New Space Age Cameron Ikin , <i>Founder & Director - Capricorne Spatial Agency, Australia</i>
10:10-10:50	P	Title: BOSON STARS Eckehard Erwin Willi Mielke , <i>University Autonomous Metropolitan, Mexico</i>
10:50-11:05	Refreshment Break	
11:05-11:45	P	Title: Why Good Technologies Fail: The Gap Between Innovation and Market Adoption Oscar Lara Rapp , <i>Founder & CEO - Apbey Spain</i>
11:45-12:25	P	Title: Space Science, Astrophysics and Exploration from Earth Orbit, Moon and Mars Bernard Foing , <i>CEO - LUNEX Euro Space Hub and Euro Moon Mars Earth Space Innovation Netherlands</i>
12:25-13:05	P	Title: Will be Updated Soon Stephan Reckie , <i>Executive Director - GEN Space, USA</i>
13:05-14:05	Group Photo	
	Lunch	
14:05-14:45	P	Title: Will be Updated Soon Roger Malina , <i>University of Texas, USA</i>
14:45-15:25	P	Title: Will be Updated Soon Francesco Affaitati , <i>Flight Dynamics Manager - European Space Agency, USA</i>
15:25-16:05	P	Title: Reframing Cosmology and Stellar Evolution through the Experimentally Verified Expansion Center Model (ECM): A New Big Bang Origin from Dirac's LNH Luciano Lorenzi , <i>Former Astronomer - Astronomical Observatory of Turin, Italy</i>
16:05-16:20	Refreshment Break	
16:20-17:00	P	Slot Available
17:00-17:30	K	Title: Will be Updated Soon Orchidea Maria Lecian , <i>Sapienza University of Rome, Italy</i>
17:30-18:00	K	Slot Available
18:00-18:20	I	Title: Artificial Spacetime Deformations Induced by Confined Electromagnetic Energy, Resonant Geometries and the Internal Electronic Properties of Bismuth Pedro Penas Ballester , <i>Independent Researcher, Spain</i>
18:20-18:40	I	Title: Space Debris Identification for Space Traffic Management Samar Koura , <i>New Giza University, Egypt</i>
18:40-19:00	I	Title: Will be Updated Soon Owen Luo , <i>Cornell University, USA</i>
19:00-19:20	I	Slot Available
Closing the Conference for Day 1		
Note: This is a Tentative Program, it is Subjected to Slight Changes Till Final Program		

Day-2 May 20, 2027		
09:30-10:10	P	Title: Will be Updated Soon
		Eric Ziem, CEO - ZL SPACE, Germany
10:10-10:50	P	Title: Deterministic Governance for Autonomous Systems: Architectural Convergence of AI-Orchestrated Execution and Independent Verification
		Massimo Medesani, General Agent - Bene Assicurazioni, Italy
10:50-11:05	Refreshment Break	
11:05-11:45	P	Title: Black Hole Atomic Structure
		Christian Corda, SUNY Polytechnic Institute, USA
11:45-12:25	P	Title: Arctic Runaway Event
		Patrick Hogan, Emeritus NASA Earth Scientist, USA
12:25-13:05	P	Title: Flavour Physics Beyond the Standard Model
		Andrzej J. Buras, Technical University of Munich, Germany
13:05-14:05	Group Photo	
	Lunch	
14:05-14:45	P	Title: Atomic Blackmail? The Weaponisation of Nuclear Facilities During the Russia-Ukraine War
		Simon Bennett, University of Leicester, UK
14:45-15:25	P	Title: Will be Updated Soon
		Henryk W. Dabrowski, Managing Director - STX Aerospace Ventures LLLP, USA
15:25-16:05	P	Title: The Oldest Standing Unsolved Problem in Spectroscopy Diffuse Interstellar Bands
		Jacek Krelowski, Nicolaus Copernicus University, Poland
16:05-16:20	Refreshment Break	
16:20-17:00	P	Slot Available
17:00-17:30	K	Title: Advancing Human Reproduction Beyond Earth: Assisted Reproductive Technologies for Long-Duration Space Exploration
		Seerat Maqsood, Founder & CEO - ARTIWOMB, USA
17:30-18:00	K	Slot Available
18:00-18:20	I	Title: Topological Matrices and Thermodynamic Limits of Information: Overcoming Reductionism in Population-Level Astrophysics
		Julien Boblique, Architect of Science 4.0, Expert in Biological Sovereignty & Systemic Resilience, France
18:20-18:40	I	Title: Earth Observation Technologies and Their Role in Aboveground Terrestrial Carbon Dynamics
		Joseph Melizza, Biomass Initiative Manager - Serco Space, Italy
18:40-19:00	I	Title: Cosmological Concepts with HPC and Quantum Computing
		Shirshendu Sekhar Mondal, Global Operations Data Management, Italy
19:00-19:20	I	Slot Available
Closing the Conference for Day 2		
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