

Scientific Program

International Webinar on Physics, Optics, Photonics & Laser

March 04-05, 2022 Online Meeting
GMT+1 12:00 PM London | UK



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March 04-05, 2022 | Webinar (Online Meeting)

Scientific Program	
March 04, 2022 Online (Zoom Meeting)	
Time Zone	GMT + 1 (12:00 PM London UK & 7:00 AM New York USA)
11:55-12:00	Opening Ceremony
Moderator	Misba Afrin, Jamia Millia Islamia, India
Keynote Presentation	
12:00-12:30	Title: The use of smartphones to perform classical mechanics and optics experiments for teaching and research Marco Anni, University of Salento, Italy
12:30-13:00	Title: Chaos in a deformed magnetized Schwarzschild spacetime Xin Wu, Shanghai University of Engineering Science, China
13:00-13:30	Title: Multi/broad/tailored-band metamaterials with perfect absorption, and independence of incident angle and polarization in the microwave range YoungPak Lee, Alpha-ADT Co., Ltd., Hwaseong, Korea
13:30-14:00	Title: Third-Order Nonlinear Response of Mixed Perovskite Nanocrystals Aya Abu Baker, American University of Sharjah, United Arab Emirates
14:00-14:30	Title: Carbon Dots: From Lab Synthesis to Unique Applications Yiqun Zhou, C-Dots Nanotec, USA
14:30-15:00	Title: Phonons and phonon-polaritons in semiconductor mixed crystals : Pressure-induced exceptional point vs. free coupling in (experimental and ab initio) Raman spectra PAGES Olivier, Université de Lorraine, France
15:00-15:30	Title: Mechanical Behavior of Titanium Based Composites Reinforced with TiC or TiB Particles under Quasi-Static and High Strain-Rate Compression Sergey Prikhodko, UCLA, USA
Plenary Presentation	
Session on: Quantum Physics and Mechanics Photonics and its Devices Physical Optics Astronomy and Astrophysics Photonic Crystal Materials and Crystallography Photonic Materials and Metamaterials (PMM)	
15:30-16:00	Title: Evolution of phase singularities of optical vortices with an initial fractional topological charge Anton Nalimov, Samara National Research University, Russia
16:00-16:30	Title: Fractal reconstruction: a new approach to data analysis for applied sciences Cristina Serpa, Instituto Superior de Engenharia de Lisboa, Portugal
16:30-17:00	Title: Contributions to sustainable flexible piezoelectric materials as key enablers of Internet of everything Paula Ferreira , University of Aveiro, Portugal
17:00-17:30	Title: Beyond the Poincaré sphere. General geometric representation of three-dimensional polarization states Jose Jorge Gil Perez, University of Zaragoza, Spain
17:30-18:00	Title: Physics of various miniaturized spectrally tunable sensors - comparison of limits in minimum size and performance Hartmut Hillmer, University of Kassel, Germany
18:00-18:30	Title: Multiphoton super-resolution STED microscopy for in vivo infrared fluorescence imaging Mario Bortolozzi, Veneto Institute of Molecular Medicine (VIMM), Italy
18:30-19:00	Title: Connexin Hemichannel Activation by S-Nitrosoglutathione Synergizes Strongly with Photodynamic Therapy Potentiating Anti-Tumor Bystander Killing Fabio Mammano, University of Padova, Italy

19:00-19:30	<p>Title: Black hole shadow as a tool to estimate the cosmological constant</p> <p>Misba Afrin, Jamia Millia Islamia, India</p>
19:30-20:00	<p>Title: Magnetic Force-Free Theory: Nonlinear case</p> <p>Brunello Tirozz, University of Rome, Rome</p>
20:00-20:30	<p>Title: Long-Term Study on Medium-Scale Traveling Ionospheric Disturbances Observed over the South American Equatorial Region</p> <p>Patrick Essien, The Next Einstein Initiative, Ghana</p>
20:30-21:00	<p>Title: Multiple Exceptional Points and realization ultrahigh Q-factors for multiscale variation of a few dielectric coaxial disks</p> <p>Almas Sadreev, Kirensky Institute of Physics, Russia</p>
21:00-21:30	<p>Title: Charge Carriers Density, Temperature, and Electric Field Dependence of the Charge Carrier Mobility in Disordered Organic Semiconductors in Low Density Region</p> <p>Seyfan Kelil Shukri , Addis Ababa University, Ethiopia</p>
Closing Ceremony & Awards	
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