

INTERNATIONAL CONFERENCE on CONDENSED MATTER**(28th to 30th Oct, 2021) – Virtual****(Organized by The Academy Of Sciences, Chennai, Tamilnadu, India.)**

Speaker	Title
Prof. T.V. Ramakrishnan (FRS), (IISc, Bangalore)	Unconventional superconducting Materials
Prof. Manish Jain, (IISc, Bangalore)	Density Functional Theory
Prof. B R K Nanda, (IIT, M)	Band Structure Driven Property Determinations: Methods and Analysis
Dr. Sharat Chandra, (IGCAR, Kalpakkam)	Density Functional Calculations: A Practical Approach
Dr. Ashok K. Verma (BARC,Mumbai)	Role of crystal structure predictions in synthesis of novel superconducting superhydrides
Prof. M.I Eremets, (MPI, Germany)	Progress in high-temperature conventional superconductivity
Prof. Anshu Pandey, (IISc, Bangalore)	Unconventional Properties of Au-Ag Nanostructures
Prof.Arindam Ghosh, (IISc, Bangalore)	Anomalous electrical property of silver –gold binary nanostructures
Prof. G. Baskaran (IMSC&IIT,M)	Hidden strong correlation physics in pressure-induced ambient temperature superconductors
Dr. Dias, Liyanagamage (University of Rochester, USA)	Towards Ambient Superconductivity: Novel Hydrogen-Rich Materials
Prof. Jorge E. Hirsch (University of California San Diego, USA)	Hydride superconductivity: Austerlitz and Waterloo for BCS-electron-phonon theory
Prof. Tanusri Saha Das Gupta (S. N Bose Centre, Kolkata)	Understanding & Prediction of Quantum Materials via Modelling & Computation
Prof.Geetha Manivasagam (VIT, Vellore)	An Overview of Biomaterials
Dr. Vidya Ravindran (Anna University, Chennai)	First-Principles Studies on Titanium-based Materials for Bio implant Applications
Prof. Indra Das Gupta (IACS, Kolkata)	The Nickel age of superconductivity
Prof. Vidhyadhiraja Sudhindra (JNCASR, Bangalore)	Dynamical mean field theory and applications to strongly correlated electronic systems
Prof. Karsten Held (Vienna University of Technology, Austria)	Nickelate superconductors -- a renaissance of the one-band Hubbard model
Prof. Tanmoy Das (IISc, Bangalore)	Twisted magnet: A Petri Dish for Novel Skyrmions
Dr. N. V. Chandra Shekar (IGCAR, Kalpakkam)	High Pressure – High Temperature X-ray Diffraction studies and Novel synthesis: An overview of recent work at IGCAR
Dr. P. Murugan (CSIR, Karaikudi)	Exploiting Topological Surface States of Bi ₂ Se ₃ for Enhancing Photo catalytic Water Splitting of TiO ₂
Dr. G.S. Vaitheeswaran (University of Hyderabad)	Hydrogen bonded solid urea under compression: Insights from first principles calculations
Prof. Ketul C. Papat (Colorado State University, USA)	Micro/Nano-engineering of material surfaces for tissue engineering and regenerative medicine
Dr. Gurpreet Kaur (IGCAR, Kalpakkam)	Density functional theory based simulations of Uranium based materials
Prof. Mohamed Henini (University of Nottingham, UK)	Modern Applications of Physics: From Research to Industry
Dr. Manan Dholakia (IGCAR, Kalpakkam)	Molecular Dynamics: Why, when, and how
Prof. Murugavel (University of Delhi, Delhi)	Mesostructured Bioactive Glass and Glass Ceramics for Bone Tissue Regeneration
Dr. P. Anees (IGCAR, Kalpakkam)	Effect of phonon anharmonicity on structural, thermal and vibrational properties of 2D materials
Dr. G. Sharma (IIT,Mandi)	Unconventional superconductivity and metallic transport in magic angle twisted bilayer grapheme
Mr. Vignesh K Manivasagam, (Colorado State University, USA)	Nano-patterned Hydrophilic Titanium Surface for Enhanced Hemo compatibility
Ms. P Hameed, (VIT, Vellore)	3D printing for Bone
Mr. T. Premkumar, (Anna University)	Theoretical Investigations on adsorption of anti-cancer drug Melphalan on Boron Nitride Nanotube
Dr. Swastika Chatterjee, (IISER, Kolkata)	DFT simulation in geosciences
Mr.Jithin Vishnu, (VIT, Vellore)	Mechanical Properties of Ti alloys used as bio implants
Dr. Jayalakshmi (Sathyabama University)	High pressure band structure study on 122 unconventional superconducting compounds and their thermoelectric properties
Ms. Shailja Sharma(IIT, Mandi)	Doped Bismuth Chalcogenide-based Topological Insulators: Magneto-transport and ARPES Studies

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Last Date for Registration: **10th October, 2021**