Tentative Program

3rd International Conference on

Magnetism and Magnetic Materials

October 22-23, 2018 | Rome, Italy



Interactive Sessions

Keynote Lectures

Plenary Lectures

Workshops

Exhibitors

B2B Meetings

For available speaker slots

magneticmaterials@annualconferences.org

3rd International Conference on

Magnetism and Magnetic Materials

October 22-23, 2018 | Rome, Italy

Program at a Glance

Day 1

Morning Sessions	Reception/Registration	08.00-09.00	
		Time	General Session
		09.00-09.15	Inaugural Address
	Least of 3 Keynote/Plenary Talks	09.15-09.45	Keynote/Plenary Talk 1
		09.45-10.15	Keynote/Plenary Talk 2
		10.15-10.45	Keynote/Plenary Talk 3
	Panel Discussions/Group Photo		
	Coffee/Tea Break 10.45-11.00 (Networking)		
Evening Sessions	11.00-12.40	5 Speakers (20 Mins Each)	
	Lunch Break 12.40-13.30		
	13.30-15.30	6 Speakers (20 Mins Each)	
	Coffee/Tea Break 15.30-15.45 (Networking)		
	15.45-17.25	5 Speakers (20 Mins Each)	

19 Speakers for Day 1

Day 2

	Time	Session 1	Session 2
Morning Sessions	09.00-10.40	5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Coffee/Tea Break 10.40-10.55 (Networking)		
	10.55-12.35	5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Lunch Break 12.35-13.25		
Evening Sessions	13.25-15.05	5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Poster Sessions		
	Coffee/Tea Break 15.05-15.20 (Networking)		
	15.20-17.00	5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Closing Cermony		
	NOTE: Program Shedule is subject to change with final allotment of the speaker slots		

30 Speakers on Day 2

Call for Abstract: https://magneticmaterials.physicsmeeting.com/call-for-abstracts.php

Registration: https://magneticmaterials.physicsmeeting.com/registration.php

Abstract Submission: https://magneticmaterials.physicsmeeting.com/abstract-submission.php

Brochure:: https://magneticmaterials.physicsmeeting.com/conference-brochure.php

For more Details PS: https://magneticmaterials.physicsmeeting.com/

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Conference Highlights

- Magnetism
- Electromagnetism
- Spintronics
- Nanotechnology
- Materials Science
- Magnetoelectronic Materials
- Magnetization Dynamics
- Hard Magnetic Materials
- Soft Magnetic Materials
- Structured Materials
- Special Magnetic Materials
- Superconductivity and Superfluidity
- Geomagnetism
- Novel Magnetic Materials and Device Applications



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3RD INTERNATIONAL CONFERENCE ON

MAGNETISM AND MAGNETIC MATERIALS

OCTOBER 22-23, 2018 | ROME, ITALY

AGENDA

Improvement of Magnetic Properties using High Magnetic Fields

Ke Han
Group Leader
National High Magnetic Field Laboratory
USA

Ke Han completed his PhD in 1992 from Oxford University. He is a faculty member of the National High Magnetic Field Laboratory (MagLab), which is operated by Florida State University (FSU), the University of Florida, and Los Alamos National Laboratory. The MagLab is supported by the US National Science Foundation (DMR-1157490 and DMR-1644779) and the state of Florida. The MagLab possesses some of the world's strongest magnets. Han is involved in the development of materials for those magnets. He has published more than 100 papers in peer-reviewed journals and has been awarded Distinguished University Scholar by FSU. His research interests are magnet materials and magnetic materials.

Condensed Matter Physics in 100 – 1000 T Ultrahigh Magnetic Fields

Yasuhiro Matsuda
University of Tokyo
Japan

Yasuhiro H. Matsuda completed his PhD in the year 1996 at the age of 27 years from Tohoku University. He is the Associate Professor of The Institute for Solid State Physics, The University of Tokyo. He has published more than 100 papers in reputed journals. He is expertise in high-magnetic-field science and condensed matter. His discoveries of novel field-induced phases shed new light on condensed matter physics.

Enhanced Magnetization in the BiFeO3-RMnO3 Thin Films (R= Rare Earth)

Abdelilah LAHMAR
Laboratory of condensed Mater Physics, University of Picardie
France

A. Lahmar received his 'Doctorat es Sciences' in materials chemistry in 2007 from la Rochelle University (France)/ University Mohamed V (Morocco). Subsequently he worked in institute of materials and surface technology (IMST) in Kiel (Germany) until 2012. Then he moved to Amiens, in laboratory of condensed Matter Physics, where he obtained his Habilitation thesis in 2017. His research interests encompass the broad range of multifunctional materials (multiferroic, electrocaloric, magnetoelectrics). he possesses more than 50 papers published in peer reviewed journals and contributed to numerous international conferences

SPEAKER SLOTS AVAILABLE

Unusual Properties of Multilayer Nanoisland Magnetic Systems: Supervortices, Flat Spin Springs, Optical Nonreciprocity

Fedor Pudonin
Head of Laboratory
P.N.Lebedev Physical Institute
Russian Academy of Science
Russia

Fedor Pudonin is the Head of Laboratory, dr. of science in P.N.Lebedev Physical Institute Russian Academy of Science, Russia.

The Experimental Evidences of The Magnetism of Water Arising from a Magnetic-Field

Pang Xiao Feng
University of Electronic Science and Technology
China

Pang Xiao Feng is from the Institute of Life Science and Technology, University of Electronic Science and Technology of China, Chengdu 610054, P.R. China.

Surface Electromagnetic Waves: Past, Present, Future

Vladimir Datsko
Institute of Applied Geophysics
Russia

Vladimir Datsko belongs to the school of the Nobel Prize winner academician P L Kapitza (a student of Ernest Rutherford). After graduating from the Moscow Physical-Technical Institute, he has started study of surface electromagnetic waves (SEV). In 1970 slow surface waves magnitoplazmennaye-a new class of surface excitations of solid-state plasma in magnetized semiconductors were opened; to optical frequencies they were dubbed plasmon and magnetoplasmon. He has observed SEV experimentally on salt water (1980), thereby confirmed experimentally the verification and validation of theoretical model of Sommerfeld-Zennek. He has watched SEV in metals (2012), and on the human body (2013). His dissertation for the Degree of Doctor of Hab. is

SPEAKER SLOTS AVAILABLE

Efficiency of Nanotechnologies in the High Performance of Buildings

Consiglia Mocerino
Professor of Architecture
Sapienza University
of Rome
Italy

Consiglia Mocerino, graduated cum laude with a Master of Science degree in Architecture, Ph.D. in Urban Recovery and Regeneration and specialist in Restoration of monuments, has held at the Faculty of Architecture, Sapienza University of Rome, teaching and research collaboration and teaching assignments, as a contract professor, in Architectural Technology. In the same Faculty she obtained the nomination of subject expert in the discipline of Technology of Architecture and Industrial Design. She is an expert in research on issues related to innovation and technological experimentation of systems

Modelling of the Superconductivity by using Accelerating Longitudinal Vortices

Valentina
Markova
Institute of Mathematics and
Informatics
Bulgaria

I was born in Sofia, Bulgaria. I graduated from St. Kliment Ohridski University of Sofia, specialty Mathematics and Informatics 1981. I graduated also from Sofia Technical University as a distance learning. I defended my doctorate received a PhD degree in Scientific Institute of the Ministry of Military Defense in 1990. I started working at the Bulgarian Academy of Sciences, Institute of Mathematics and Informatics on special topics

Process, Characterization and Physical Properties of 3D Transition Ion Doped-Tetrahedrite Compounds

Adil Guler
Marmara University

Dr. Adil Guler, Lecturer (Ph.D. physics), now is a Researcher in Marmara University, Ataturk Faculty of Education, Department of Computer and Instructive Technology Teacher. He got his B. Sc. in physics and Specialist in Magnetic and Superconductive materials. He got his Ph. D. at Marmara University department of physics. He works in the research group of Prof. Dr. Arunava Gupta as a research scientist in Alabama State University. He also makes projects with Assist. Prof. Dr. Cihat Boyraz on superconductivity and magnetism. Dr. Guler's magnetic superconductivity group has been working on Fe-based superconductors for 5 years.

SPEAKER SLOTS AVAILABLE

Novel Behaviours of Driven Magnets

Muktish Acharyya
Professor
Presidency University

Muktish Acharyya completed his PhD in the year 1996 from Saha Institute of Nuclear Physics (Calcutta University). Now he is Professor of Physics at Presidency University, Kolkata, INDIA. He has published more than 50 papers in reputed journals and has been serving as an editorial board member of repute. His main area of research is nonequilibrium phase transition in magnetic model systems (Rev. Mod. Phys. 71 (1999) 847).

Direct Energy Gap in Light Rare Earth Nitrides: EuN and SmN

Muhammad Azeem
University of Sharjah

Muhammad Azeem is from the Department of Applied Physics and Astronomy, University of Sharjah, Sharjah 27272, United Arab Emirates.

Ultraslow Magnetization Relaxation in Rhombohedral Structured Weak Ferromagnets and Piezomagnets

Namrata Pattanayak
Indian Institute of Science Education and Research

Namrata Pattanayak has completed her Master of Science in Physics from Utkal University Odisha with first class distinction. Since then she has been working on her PhD in the Dept. of physics, Indian Institute of Science Education and Research, Pune under the supervision of Dr. Ashna Bajpai. Namrata's research area includes 'Synthesis and characterization of weakly ferromagnetic and piezomagnetic compounds'.

SPEAKER SLOTS AVAILABLE

Enhancement the Magneto-Electric Properties of Some Ferrite- PVDF Nano Composite

Osama Hemeda
Tanta University

Osama Hemeda is a Professor of Tanta University, Faculty of science, physics department , Egypt

The Energy Performances of Caloric Materials in an Active Caloric Refrigerator

Claudia Masselli
Department of Industrial Engineering
University of Salerno
Italy

Claudia Masselli is a Postdoctoral Research Fellow at University of Salerno. She earned the Ph.D. title in Industrial Engineering on March 2017, discussing the thesis entitled "Magnetic refrigeration an attraction toward our future". Main research topic is caloric refrigeration both experimentally and numerically: she investigates the energetic performances of caloric materials. Her researches embrace, also, the energy and environmental optimization of vapor compression cycles. She is the winner of the Young Researcher Award Certificate of merit for the paper

Structural, Electronic, Magnetic and Transport Properties of Co2Fe1-xCrxSi Heusler Alloys

Deepika Rani
Indian Institute of Technology
Bombay

Deepika Rani is a PhD student in department of physics IIT Bombay, India. Her research work is focused on finding potential materials for applications in the field of Spintronics.

SPEAKER SLOTS AVAILABLE

Biography

Process, Characterization and Physical Properties of 3d Transition Ion Doped-Tetrahedrite Compounds

Cihat Boyraz
Marmara University

Cihat Boyraz, Lecturer (Ph.D. physics), now is a Researcher in Marmara University, Faculty of Technology, Department of Mechanical Engineering. He got his B. Sc. in physics and Specialist in Magnetic and Superconductive materials. He got his Ph. D. at Marmara University department of physics. He worked in the research group of Prof. Dr. Arunava Gupta as a research scientist in Alabama State University. He also makes projects with Prof. Dr. Yildirhan Oner on superconductivity and magnetism. Dr. Boyraz's magnetic superconductivity group has been working on Fe-based superconductors for 5 years.

Synthesis and Investigation of Pr-Cu Substituted CTAB Assisted Microwave Absorbing Nano-Material Suitable for Super High Frequency Applications

Imran Sadiq
University of the Punjab

Dr. Imran Sadiq has earned his PhD in 2014. Currently he is working in as assistant professor in Centre of Excellence in Solid State Physics, University of the Punjab, Lahore, Pakistan. Currently, he is supervising three research students. He has published more than 25 research papers in international peer reviewed journals.

Structural and Magnetic Properties of TbNi-Substituted Calcium Strontium M-Type Nano-Structured Hexa-Ferrites

Hasan Khan
The Islamia University of Bahawalpur

Hasan M. Khan has expertise in manufacturing magnetic materials and their characterization resulting in the wide variety of applications such as electromagnetic interference suppression and recording media. I have 21 high impact factor international publications. I am working as assistant professor in a well esteemed institution The Islamia University of Bahawalpur, Pakistan

SPEAKER SLOTS AVAILABLE

Ab-Initio Study of Structural, Electronic and Magnetic Properties of VFe2O4

Iqra Asif
University of the Punjab

I am Iqra Asif student of MPhil in center of excellence solid state physics Punjab university Lahore. I am doing my research work on magnetic properties using the DFT. I am interested to study about the magnetic material

First-Principles Study of Structural, Elastic and Magnetic Properties of CuCoMnZ (Z=Si, Sn, Sb)

Shanian Boota
University of the Punjab

My name is Shanian. Recently I am a student of M.Phil. at Centre for excellence in solid state physics, university of the Punjab, Lahore Pakistan. During my research work I investigated structural, elastic, mechanical and magnetic properties of CuCoMnZ (Z=Si, Sn, Sb) quaternary Heusler alloys by using First-Principles calculation. I have also presented a poster on "Structural, Elastic, mechanical, Electronic and Electronic Properties of CuCoMnGe" in an international conference at Centre of excellence in solid state physics, university of the

To Study the Structural and Magnetic Properties of Calcium Titanate CaTiO3 Nanoparticles

Muhammad Usama Khan
University of the Punjab

I am Muhammad Usama khan student of MS-NANOTECHNOLOGY at Centre of excellence in solid state physics, university of the Punjab, Lahore 54590, Pakistan under the supervision of Dr. Saira Riaz (associate professor of physics at Centre of excellence in solid state physics, university of the Punjab, Lahore 54590, Pakistan. My session of MS is 2016-2018.

SPEAKER SLOTS AVAILABLE

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Biography

The electron correlation effect on the magnetic properties of quasi-one dimensional-materials on the base of graphitic nanoclusters with embedded transition metals

Vladyslav Cheranovskii
Professor
V.N.Karazin Kharkiv National University
Ukraine

Vladyslav Cheranovskii completed his Doctor of Sciences in the year 1994 at the age of 38 years from Institute for Single Crystal. He is the Professor of V.N.Karazin Kharkiv National University, department of Chemistry. He has published 49 papers recognized by Scopus and Web of Science databases. He is working in field of solid state physics and quantum chemistry. Main subject of interest: strongly correlated electron system quantum theoretical simulation of electron structure and thermodynamics of nanomagnets

Study of influence of Pr3+ ions on the structural, optical and magnetic properties of R-type hexagonal

Abdul Basit Javaid
University of the Punjab

I am a student Studying MS in Nanotechnology in CoE in Solid State Physics in University of Punjab, Lahore, Pakistan. My research topic is synthesis and characterization of r-type hexaferrites

SPEAKER SLOTS AVAILABLE

Plan your trip to Rome



Colosseum



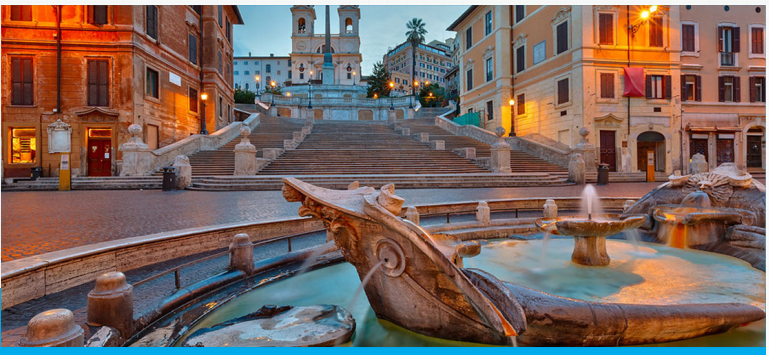
St. Peter's Basilica



Pantheon



Trevi Fountain



Spanish Steps



Roman Forum



Vatican Museums and Sistine Chapel



Castle Saint Angelo

SCIENTIFIC PROGRAM

International Conference on

Magnetism and MagneticMaterials

October 09-10, 2017 London, Uk

Conference Day 1 | Monday, October 09, 2017

Atlantis 1

Registration Desk Opens

Opening Ceremony

KEYNOTE FORUM

Introduction

Title: Processing of τ- MnAl
Ian Baker, Dartmouth College, USA

Title: Metal hydride magnetocaloric compounds
Valérie Paul-Boncour, Institute of Chemistry and Materials Paris East (ICMPE), France

Title: Control ferromagnets at room temperature without external magnetic field
Kaiyou Wang, Institute of Semiconductors, CAS, PR China

Title: Advanced spintronic materials based on ordered alloys
Koki Takanashi, Tohoku University, Japan

GROUP PHOTO

NETWORKING & REFRESHMENT BREAK

SPECIAL SESSION

Title: Additive manufacturing of high performance NdFeB Magnets
M Parans Paranthaman, Oak Ridge National Laboratory, USA

Sessions: **Magnetism and Magnetic Materials | Functional Magnetic Materials | Magnetization Dynamics | Hard and Soft Magnetic Materials**

Session Chair: R K Pandey, Texas State University, USA

Session Co-chair: Ian Baker, Dartmouth College, USA

Session Introduction

Title: Ternary phase soft magnetic coating on grain oriented electrical steel
Sreedhara Sarma, Tata Steel Europe Warwick Technology Centre, UK

Title: Influence of the pressure on the multiferroic properties of the RMn_2O_5 series
P Foury-Leylekian, Univ. Paris Sud Université Paris-Saclay, France

Title: Growth and characterisation of antiferromagnetic/ferromagnetic heusler alloy films
Atsufumi Hirohata, University of York, England

Title: Phase diagram for the O(n) model with defects of random local field type and verity of the Imry-Ma theorem
A S Sigov, Moscow Technological University, Russian Federation

Title: Identification of wall thinning of steel pipe using PEC spectrum Analysis
Kyung-Ho Kim, Korea Atomic Energy Research Institute, South Korea

LUNCH BREAK

Title: Artificial magnetic lattices and their applications in optical and spin wave micro-devices
Mitsuteru Inoue, Toyohashi University of Technology, Japan

Title: Fabrication and application of Magnetorheological fluids
Hyoung Jin Choi, Inha University, South Korea

Title: Exploring multiferroic materials for enhanced magnetoelectric coupling
Anju Ahlawat, Raja Ramanna Centre for Advanced Technology, India

Title: Heusler alloy thin films for data storage and energy
Francesca Casoli, IMEM of the Italian National Research Council (CNR), Italy

Title: Research on Fe-based amorphous alloys with high-Fe content and excellent soft magnetic property
Ke-Fu Yao, Tsinghua University, China

NETWORKING & REFRESHMENT BREAK

Sessions: **Magnetism and Magnetic Materials | Magnetic Data Storage**

Session Chair: Koki Takanashi, Tohoku University, Japan

Session Co-chair: Atsufumi Hirohata, University of York, England

Session Introduction

Title: Microwave heating mechanism of liquid crystals as revealed by microwave irradiation NMR spectroscopy
Akira Naito, Yokohama National University, Japan
Title: Magnetic energy optimization of Cobalt-based nanostructured magnet
Silvana Mercone, Université Sorbonne Paris Cité, France
Title: Electric tuning of Magnetic Permeability
Chenglong Jia, Lanzhou University, China
Title: Modeling non-linear magneto-elastic effects in hydrogels filled with ferromagnetic nanoparticles
Olga Kuksenok, Clemson University, USA
Title: Role of spin-charge coupling on antiferromagnetic universal scaling behaviors in unconventional Cu-based and Fe-based high temperature superconductors
Sung-Ho S Salk, Korea Academy of Science and Technology, South Korea
Title: Linear acceleration over water surface by using magnetic strips
Suresh Kumar Baliyan, Saipem, Saudi Arabia
Title: Applications of rapidly solidified magnetic materials for structural health monitoring of engineering components
Amitava Mitra, CSIR-National Metallurgical Laboratory, India
Title: Study on the permanent magnetic properties of a series of W-type hexagonal ferrites
Xiansong Liu, Anhui University, Hefei, China

PANEL DISCUSSION

Conference Day 2 | Tuesday, October 10, 2017

Atlantis 1

KEYNOTE FORUM

Title: Magnetic Impurities in cold atom systems
Yshai Avishai, Ben Gurion University (Israel), NYU-Shanghai (China) and YITP (Japan)
Title: Effect of induced magnetic field on structure and properties of electrodeposited Ni-W alloy coatings
A Chitharanjan Hegde, National Institute of Technology Karnataka, India
Title: Spin superfluidity, coherent spin precession and magnon BEC
Edouard B Sonin, Hebrew University of Jerusalem, Israel

NETWORKING & REFRESHMENT BREAK

Sessions: **Electromagnetism | Nanomaterials and Nanotechnology | Materials Science and Engineering | Superconductivity and Superfluidity | Spintronic Effects and Devices**

Session Chair: Nicholas G Kioussis, California State University Northridge, USA

Session Co-chair: Sayan Bhattacharyya, Institute of Science Education and Research (IISER) Kolkata, India

Session Introduction

Title: Application of magnetic field for enhancement of yield in soybean and maize
K N Guruprasad, Shri Vaishnav Vidyapeeth Vishwavidyalaya, India
Title: Magnetic transistor and sensor based on Varistor diodes
R K Pandey, Texas State University, USA
Title: Electron acceleration by Chirped axicon Gaussian laser in *vacuum*
Niti Kant, Lovely Professional University, India
Title: Features of tunnel magneto resistive effect in various types of nanocomposites
Oleg V Stognei, Voronezh State Technical University, Russia
Title: Anti-ferromagnetism in paramagnetic ion doped semiconductor nanocrystals
Shun-Jen Cheng, National Chiao Tung University, Taiwan
Title: Structure-Property correlations of magnetic nanoheterostructures
Sayan Bhattacharyya, Indian Institute of Science Education and Research (IISER) Kolkata, India
Title: Perpendicular magnetic anisotropy and its reorientation in two-dimensional structures
Dorj Odkhuu, Incheon National University, South Korea

LUNCH BREAK

Title: Magnetomigration of rare-earth ions in strong magnetic fields
Isadora R Rodrigues, KU Leuven, Belgium
Title: Hexagonal ferrite Ecoceramics: Magnetic biomorphic / biomimetic 3DOM foams produced using cork as a natural sustainable template
Robert C Pullar, University of Aveiro, Portugal
Title: From high-spin single molecule magnets to low-spin single ion magnets
Roman Boča, University of SS Cyril and Methodius in Trnava, Slovakia
Title: Electric field and strain control of magnetism: Towards ultralow energy memory devices
Nicholas G Kioussis, California State University Northridge, USA
Title: Antiferromagnet-based tunnel junctions
Cheng Song, Tsinghua University, China

Title: Magnetic and thermodynamic models of iron-based alloys for fusion materials application
Duc Nguyen-Manh, United Kingdom Atomic Energy Authority, UK

NETWORKING & REFRESHMENT BREAK

Title: Process, Characterization and ESR Properties of 3d Transition Ion Doped-Tetrahedrite Compounds
Cihat Boyraz, Marmara University, Turkey
Title: Magnetism in Pt-nanoparticles
Roberto D'Agosta, Universidad del Pais Vasco, Spain
Title: Effect of Cu substitution on the magnetism and electronic structure of hexagonal $YMnO_3$
Qi Li, Southeast University, China
Title: Comparative study of structural, electrical and dielectric properties of Ni and Mg substituted Zn nano-ferrites
Nasir Amin, Government College University Faisalabad, Pakistan

Poster Presentations

Young Researchers Forum

Title: Magneto-elastic effect on ferromagnetism induced by quantum-well states in Pd thin film
Yusuke BAN, Keio University, Japan
Title: Aspects of magnetocaloric effects and hyperthermia using magnetic materials
Elena Yuan, INCDIE-ICPE CA, Romania
Title: The effect of alkali concentration on the structural and magnetic properties of Mn-ferrite nanoparticles prepared via the co-precipitation method
Somayeh Pourbafarani, Isfahan University, Iran
Title: Lock-in thermography: A new method for magnetic nanoparticles and the quantification of heat
Federica Crippa, University of Fribourg, Switzerland
Title: Defect induced magnetism in ZnO: A first spintronic device application
Lukas Botsch, University of Leipzig, Germany
Title: Computation of neutral points in magnetic flux density due to magnets in magnetic motor for cogging reduction
Amrit Panthi, Tribhuvan University, Nepal

VIDEO PRESENTATIONS

Title: Magnonic studies of ferromagnetic nanostructures
Guru Venkat, Indian Institute of Technology Madras, India
Magnetic ground state and multiferroic nature of hexagonal $LuFeO_3$ nanoparticles
Pittala Suresh, Indian Institute of Science, India

PANEL DISCUSSION

Awards & Closing Ceremony

Bookmark your dates

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E-mail: magneticmaterials@annualconferences.org; magneticmaterials@physicsconferences.org
Website: https://magneticmaterials.physicsmeeting.com/