



International Workshop on Recent Advancements in Magnetism and Magnetic Materials 2024 (iReAd MAGMA 24) (Online)

November
26 – 30

www.ireadmagma.com

Organized by
Department of Physics, School of Advanced Sciences
VIT-AP University Amaravati, AndhraPradesh – 522 237, India

About 'i-ReAd MAGMA 24'

The i-ReAd MAGMA 24 workshop aims to bring together researchers, scientists, and industry professionals working in the field of recent advancements in magnetism and magnetic materials. Participants will have the opportunity to exchange knowledge, discuss recent developments, and explore collaborative opportunities. The workshop spans various domains, making it relevant for undergraduates, postgraduates, Ph.D. scholars, and faculty members alike.

Key Topics

A: Fundamentals of magnetism

1. Skyrmions
2. Strongly correlated electron systems
3. Frustrated magnetism
4. Topological insulators
5. Spintronics

B: Functional materials

1. Multiferroics
2. Magnetoelectric effect and applications
3. Magnetic cooling technologies: Magnetocaloric materials
4. Ferrofluids

C: Applied magnetism

1. Magnetic hyperthermia and cancer therapy
2. Magnetic materials for energy and devices
3. Giant magnetoresistance, Tunnel magnetoresistance
4. High-Density magnetic recording technologies
5. Magnetic resonance imaging (MRI)
6. Magnetic particles in biotechnology and medicine
7. Magnetic field-Based energy harvesting
8. Magnetic enhancements in battery technologies

D: Design and synthesis of magnetic materials

1. Magnetic nanoparticles
2. Magnetic crystals, alloys, composites
3. Soft and hard magnetic materials
4. Permanent magnets
5. Diluted magnetic semiconductors
6. Magnetic nanoparticles for recoverable photocatalysis

E: Theoretical methods and techniques in magnetism

1. Computational tools (DFT, Monte-Carlo, etc)
2. Quantum Computation

Call for papers

Participants are invited to submit abstracts online ([Click Here](#)). Selected papers may be invited to submit a full length paper. Journal details will be updated in the workshop website.

Resource Persons



Dr Marcelo Knobel
UNICAMP Brazil, Editor-in-Chief JMMM



Dr Hari Srikanth
University of South Florida USA



Dr Del Atkinson
Durham University UK



Dr Andris Bakuzis
Universidade Federal de Goiás Brazil



RNDr Marián Reiffers
University of Presov Slovak Republic



Dr Nicola Morley
University of Sheffield UK



Dr Venkateswaran C
University of Madras Chennai



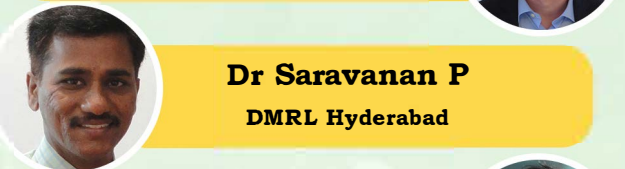
Dr Carlos Romero-Muñiz
Universidad D Sevilla Spain



Dr Murugavel P
IIT Madras



Dr Pankaj Poddar
NCL Pune



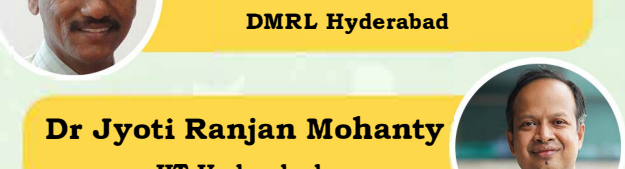
Dr Saravanan P
DMRL Hyderabad



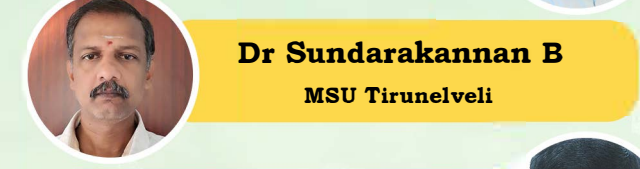
Dr Sundarakannan B
MSU Tirunelveli



Dr Perumal Alagarsamy
IIT Guwahati



Dr Jyoti Ranjan Mohanty
IIT Hyderabad



Dr Koteswara Rao Bommiseti
IIT Tirupati



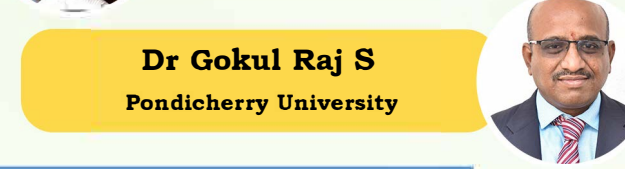
Dr Arghya Taraphder
IIT Kharagpur



Dr Justin Joseyphus R
NIT Tiruchirappalli



Dr Sujit Das
IISC Bangalore



Dr Gokul Raj S
Pondicherry University

Participant type	Early Bird Registration	Regular Registration (After October 30, 2024)
Students (UG, PG, Ph.D)	1500 INR	2000 INR
Faculty, Scientist, Postdoc	3000 INR	3500 INR
Industry	5000 INR	6000 INR
Foreign participants	100 USD	150 USD

Note: Online registration is mandatory for all the participants (with or without paper presentation)

Important dates

- Abstract submission opens: **September 01, 2024**
- Abstract submission closes: **October 10, 2024**
- Acceptance notification: **October 15, 2024**
- Early bird registration closes: **October 30, 2024**

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Dr Ganesh Kotagiri, Physics, SAS, VIT-AP

Contact details

Dr Prabhakaran Thandapani, **+91 9488138153**
Dr Nallamuthu S, **+919791889719**
Department of Physics, School of Advanced Sciences,
VIT-AP University,
Andhra Pradesh, India.

✉ ireadmagma@vitap.ac.in

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