

Procedure for sponsoring faculty to Orientation Course / FDP / Workshops / Conferences / Seminars :

- The Head of the Department is the authority to decide as to whom to sponsor for a Course / Workshop / Conference / seminar. He / She shall do so taking into account the relevance of the subject matter of the programme with reference to the subjects taught by the faculty member. Normally the recommendations of the HOD are approved by the Principal.
- Normally, more than one faculty member shall not be allowed to attend the same course or any other course at the same time, where the faculty strength of the department is 12 or less. If the department is running 2 / 3 sections, 2 / 3 faculty members may be allowed at the same time. (This is to ensure that the class work is not disturbed).
- The course fee / Travel expenses shall be met by the staff member initially and reimbursement shall be claimed enclosing a note on the proceedings of the course / conference / workshop attended, Participation certificate, fare receipt, claim for travel expenses in the prescribed form limited to Rs.10,000/-. The journey is limited to train or bus.
- Faculty under probation and contract faculty are not eligible to be sponsored to the Orientation Course / Refresher course / FDPs / Symposia / Workshops of a duration of more than one week.
- For Courses attended by the faculty for the purpose of obtaining eligibility for Higher AGP under CAS permission is normally granted during vacation period only. However, when it becomes necessary to attend during working days, vacation shall be adjusted equal to the period of the course attended. Such adjustment is only to the extent of period of vacation to which the candidate is eligible in respect of the Academic year in which he attends the course. In no case, vacation for the next academic year can be considered for adjustment. However, if the course period spills over the period of vacation by less than 6 days, the spillover period shall be considered as OD.
- For the FDPs / Conferences / Workshops for which the faculty is sponsored by the College, no adjustment of vacation / leave is made. Normally the period of such FDPs / Conferences / Seminars/ Workshops shall not exceed one week. However in exceptional cases, on the recommendation of the HoDs, Principal may sponsor the faculty for courses having longer duration.

Note: Alternative arrangements for class work / examination duties shall be made in all cases and concerned staff to compensate the same later by special classes so that the faculty can conduct the required number of classes to cover the syllabus

P. Subramanian
9/12/16

P. Subramanian


Principal
Chaitanya Bharathi Institute of Technology
(Autonomous)
Hyderabad-500 075.

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Payment Voucher

No. : 557

Dated : 7-Jul-2023

Particulars	Amount
Account : S.Shanmukharao Samatham	69,574.00
Through : ICICI-1258-Recurring Expenditure A/C	
On Account of : Being amount paid to S Shanmukaha Rao, Asst. Professor, Physics dept. towards Registration fee for attending and presenting Paper (Virtual Mode) in International Conference INTERMAG 2023 held during 15.05.23 to 19.05.23 at Sendai, Japan.	
Bank Transaction Details: Cheque 007099 7-Jul-2023 69,574.00	
Amount (in words) : INR Sixty Nine Thousand Five Hundred Seventy Four Only	
	₹ 69,574.00


Receiver's Signature: .



Prepared by



Checked by

Authorised Signatory

Verified by


PRINCIPAL
CBIT


Member-CBIT
Authorized Signatory


PRESIDENT
CBIT

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)
Kokapet (V), Gandipet (M), Hyderabad 500 075, India

Chaitanya Bharathi Institute
of Technology
Saneela
27 MAY 2023
1327
Mobile: +91-8779645133, +91-9680680607.
Email: shanmukharao_physics@cbit.ac.in

Dr. S. Shanmukharao Samatham
Assistant Professor, Department of Physics

Mobile: +91-8779645133, +91-9680680607.
Email: shanmukharao_physics@cbit.ac.in

27.05.2023

To,

The Principal

Chaitanya Bharathi Institute of Technology (A)

(Through Head of the Department)

Subject: Virtual Participation of INTERMA 2023 Conference

Dear Sir,

I am thankful to you and to the management for approving the financial support and the required on-duty leaves to physically attend INTERMAG 2023 Conference in Sendai, Japan during 15-19th May, 2023.

However, I could not attend the conference physically due to non-issuance of visa at the right time. I am sorry to inform you that my efforts were not fruitful to attend the conference in-person despite the support from our institute and SERB. Upon request, the conference organizers agreed for virtual oral participation as the registration fee has already been paid.

I have uploaded my presentation. The title of the talk is "Putative Quantum Critical Point in Doped Skyrmion Binary Alloys (UOB-05)". The online conference starts on May 29, 2023. *In this regard, I request you to kindly reimburse the registration fee only, amounting to Rs. 69574.03/- [850 USD x 81.8518]*
Looking forward to hearing from you favourably.

Enclosure(s):

1. Virtual Mode Conversion
2. Digest Book- Front and Abstract Pages
3. Approval from CBIT

Sincerely,



(Dr. S. Shanmukharao Samatham)

Forwarded

27/5/2023

Accepted
27/05/2023

Virtual Presentation of UOB-05

Intermag2023-reg@congre.co.jp <Intermag2023-reg@congre.co.jp>

Tue, May 9, 2023 at 2:24 PM

To: "S.Shanmukharao Samatham Asst. Professor" <shanmukharao_physics@cbit.ac.in>

Cc: Intermag2023-reg@congre.co.jp, R Mohr <authorsupport@intermag.org>

Dear Dr. S.Shanmukharao Samatham,

This is the Secretariat of Intermag2023.

We are sorry to hear that you will not be able to attend the conference in-person.

Your registration participation category and talk have been converted to Virtual Mode.

Unfortunately, per our Cancellation/Participant Category Change Policy a refund of the difference in participation category fees will not be issued.

- <https://intermag.org/registration>

Details regarding Virtual Mode access will be distributed after the onsite conference.

Thank you for your understanding.

Sincerely,

Matthew Leong

Intermag2023 Congress Secretariat (Registration)

c/o Congrès Inc.

Onward Park Building

3-10-5 Nihonbashi, Chuo-ku Tokyo

103-8276, JAPAN

Tel: +81-3-3510-3720

E-mail: intermag2023-reg@congre.co.jp

[Quoted text hidden]



Samatham

[Media](#)

S. Shanmukharao Samatham

Chaitanya Bharathi Institute of Technology

Putative Quantum Critical Point in Doped Skyrmion Binary Alloys

[View Session Detail](#)**Presentation Number: UOB-05**

S. Shanmukharao Samatham^{*1}, S Shravan Kumar Reddy¹,
Akhilesh Patel^{3,2}, K G. Suresh²

¹Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana, India; ²Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Mumbai, Maharashtra, India; ³Research Centre for Magnetic and Spintronic Materials, National Institute for Materials Science (NIMS), Ibaraki, Tsukuba, Japan



Program Overview

Intermag 2023 Conference will take place at the Sendai International Center from May 15 to May 19, 2023. The online (on-demand) platform will be available from May 29 to Aug 18 (Planned). Details about the online (on-demand) platform will be sent at a later time.

Onsite Program Schedule

(using your computer)

[MORE INFO >](#)

Onsite Program Schedule

(using your mobile device)

[MORE INFO >](#)

Onsite Schedule-at-a-Glance

[MORE INFO >](#)

Onsite Floor Map

[MORE INFO >](#)

Mobile App



Digest Book




Intermag 2023
Sendai, Japan
May 15 - 19, 2023

Online Conference starts May 29



 **IEEE**
MAGNETICS

 公益社団法人
日本磁気学会
The Magnetics Society of Japan

Jointly sponsored by
IEEE Magnetic Society and
The Magnetic Society of Japan

Session UOB
MAGNETIC SEMICONDUCTORS AND METALS

Jaroslav Hamrle, Chair
 Charles University in Prague, Prague, Czechia

- UOB-01. A new class of ferromagnetic semiconductors and quantum heterostructures. (Invited) L.D. Anh^{1,2}, K. Takiguchi¹, T. Chiba³ and M. Tanaka^{1,4}** *1. Dept. of Electrical Engineering and Information Systems, The university of Tokyo, Tokyo, Japan; 2. JST-PRESTO, Saitama, Japan; 3. National Institute of Technology, Fukushima College, Fukushima, Japan; 4. Center for spintronics research network, The University of Tokyo, Tokyo, Japan*
[View Digest Text](#)
- UOB-02. Magnetic Order in Wurtzite (Ga,Mn)As.** K. Gas¹, J. Sadowski¹ and M. Sawicki¹ *1. Institute of Physics, Polish Academy of Sciences, Warszawa, Poland*
[View Digest Text](#)
- UOB-04. Withdrawn**
- UOB-05. Putative Quantum Critical Point in Doped Skyrmion Binary Alloys.** S. Samathan¹, S. Shravan Kumar Reddy¹, A.K. Patel^{1,2} and K. G. Suresh² *1. Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, India; 2. Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Mumbai, India; 3. Research Centre for Magnetic and Spintronic Materials, National Institute for Materials Science (NIMS), Ibaraki, Japan*
[View Digest Text](#)
- UOB-06. Enhanced anomalous Hall and negative anisotropic magnetoresistance effects driven by p-d hybridization with carbon.** S. Isogami¹, Y. Kota², H. Yasufuku¹, K. Oyoshi¹, M. Tanaka¹ and Y. Takahashi¹ *1. National Institute for Materials Science (NIMS), Tsukuba, Japan; 2. National College of Technology, Fukushima college, Iwaki, Japan*
[View Digest Text](#)
- UOB-07. Machine Learning Study of Highly Spin-Polarized Heusler Alloys at Finite Temperature.** I. Kurniawan^{1,2}, Y. Miura^{1,3} and K. Hono^{1,2} *1. Research Center for Magnetic and Spintronics Material, National Institute for Materials Science (NIMS), Tsukuba, Japan; 2. Graduate School of Science and Technology, University of Tsukuba, Tsukuba, Japan; 3. Center for Spintronics Research Network (CSRN), Graduate School of Engineering Science, Osaka University, Osaka, Japan*
[View Digest Text](#)



Intermag 2023
Sendai, Japan
May 15 - 19, 2023

Certificate of Attendance

This is to certify that

Shanmukharao Samatham Satya

has registered for

INTERMAG 2023

held during the period of

May 15 - May 19, 2023

at the Sendai International Center, Sendai, Japan

May 29 - Aug 18, 2023

for the On-Demand Distribution

INTERMAG 2023 Management Committee

General Co-chair
Koki Takanashi
JAEA/Tohoku University

General Co-chair
Bethanie J H Stadler
University of Minnesota

Receipt

Shanmukharao Samatham Satya
Chaitanya Bharathi Institute Of Technology, Hyderabad
India

Receipt Number: 1594
Receipt Date: Apr 14, 2023
Reference Number: 1541

Details

Total (USD)

Onsite Participating Non-member: Advance Registration

850.00

Thank you for your INTERMAG 2023 Registration Fee payment.

– INTERMAG 2023 Organizing Committee



Intermag 2023
Sendai, Japan
May 15 - 19, 2023

For Inquiries, please contact:

INTERMAG 2023 Secretariat

Onward Park Building

3-10-5 Nihonbashi, Chuo-ku

Tokyo, Japan 103-8276

Email: Intermag2023-reg@congre.co.jp

INTERMAG2023 Registration Confirmation Notification

Secretariat <Intermag2023-reg@congre.co.jp>
Reply-To: Secretariat <Intermag2023-reg@congre.co.jp>
To: Shanmukharao Samatham Satya <shanmukharao_physics@cbit.ac.in>

Fri, Apr 14, 2023 at 6:31 PM

Dear Shanmukharao Samatham Satya,

Thank you for registering for INTERMAG 2023.

Please refer to your registered information at the bottom of this email.

Attached to this email are your Receipt and Certificate of Attendance.

To modify your personal information or change/cancel your registration, please contact us at Intermag2023-reg@congre.co.jp with the "Reference" number on your receipt.

INTERMAG 2023 will be held from May 15th to 19th, 2023 at the Sendai International Conference Center. On-demand streaming will be available from May 29th to August 18th, 2023 (tentative). Information on viewing the on-demand streaming will be posted on the conference website in due course. When the on-demand streaming becomes available, we will send you an email with your ID and PW to access the content.

For inquiries regarding registration, please contact us at the below email address.

INTERMAG2023 Secretariat

Onward Park Building

3-10-5 Nihonbashi, Chuo-ku

Tokyo, Japan 103-8276

E-mail: Intermag2023-reg@congre.co.jp

Registration

Registration Group	Onsite
Details	Onsite Participating Non-member: Advance Registration
Name Badge	Shanmukharao Samatham Satya
Amount Required	850.00
Amount Outstanding	0.00

April 2023

Date	US Dollar to Indian Rupee Monthly Exchange Rates	
Saturday 1 April 2023	\$1 USD = ₹82.1806	<u>US Dollar Indian Rupee rate for 01/04/2023</u>
Sunday 2 April 2023	\$1 USD = ₹82.2009	<u>US Dollar Indian Rupee rate for 02/04/2023</u>
Monday 3 April 2023	\$1 USD = ₹82.147	<u>US Dollar Indian Rupee rate for 03/04/2023</u>
Tuesday 4 April 2023	\$1 USD = ₹82.1382	<u>US Dollar Indian Rupee rate for 04/04/2023</u>
Wednesday 5 April 2023	\$1 USD = ₹81.96	<u>US Dollar Indian Rupee rate for 05/04/2023</u>
Thursday 6 April 2023	\$1 USD = ₹81.8249	<u>US Dollar Indian Rupee rate for 06/04/2023</u>
Friday 7 April 2023	\$1 USD = ₹81.8752	<u>US Dollar Indian Rupee rate for 07/04/2023</u>
Saturday 8 April 2023	\$1 USD = ₹81.8405	<u>US Dollar Indian Rupee rate for 08/04/2023</u>
Sunday 9 April 2023	\$1 USD = ₹81.8405	<u>US Dollar Indian Rupee rate for 09/04/2023</u>
Monday 10 April 2023	\$1 USD = ₹81.9768	<u>US Dollar Indian Rupee rate for 10/04/2023</u>
Tuesday 11 April 2023	\$1 USD = ₹82.0786	<u>US Dollar Indian Rupee rate for 11/04/2023</u>
Wednesday 12 April 2023	\$1 USD = ₹81.9505	<u>US Dollar Indian Rupee rate for 12/04/2023</u>
Thursday 13 April 2023	\$1 USD = ₹81.6914	<u>US Dollar Indian Rupee rate for 13/04/2023</u>
Friday 14 April 2023	\$1 USD = ₹81.8518	<u>US Dollar Indian Rupee rate for 14/04/2023</u>
Saturday 15 April 2023	\$1 USD = ₹81.8421	<u>US Dollar Indian Rupee rate for 15/04/2023</u>
Sunday 16 April 2023	\$1 USD = ₹81.8568	<u>US Dollar Indian Rupee rate for 16/04/2023</u>
Monday 17 April 2023	\$1 USD = ₹82.0042	<u>US Dollar Indian Rupee rate for 17/04/2023</u>
Tuesday 18 April 2023	\$1 USD = ₹82.1074	<u>US Dollar Indian Rupee rate for 18/04/2023</u>
Wednesday 19 April 2023	\$1 USD = ₹82.3337	<u>US Dollar Indian Rupee rate for 19/04/2023</u>
Thursday 20 April 2023	\$1 USD = ₹82.1534	<u>US Dollar Indian Rupee rate for 20/04/2023</u>
Friday 21 April 2023	\$1 USD = ₹82.0407	<u>US Dollar Indian Rupee rate for 21/04/2023</u>
Saturday 22 April 2023	\$1 USD = ₹82.0409	<u>US Dollar Indian Rupee rate for 22/04/2023</u>

$$850(\text{USD}) \times 81.8518 = \underline{69574.03 \text{ INR}}$$


(Dr. S. Shankar
Samatham)



Putative Quantum Critical Point in Doped Skyrmion Binary Alloys



Dr. S. SHANMUKHARAO SAMATHAM

Assistant Professor

Department of Physics

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

Gandipet, Hyderabad 500 075, INDIA



Intermag 2023
Sendai, Japan
May 15 - 19, 2023

INTERMAG 2023

May 1

[Schedule](#) [Agenda](#) [Speakers](#) [Digests](#) [Exhibitors](#) [General Info](#)

▶ [Samatham](#)



Speaker



S. Shanmukharao Samatham
Chaitanya Bharathi Institute of Technology



S. Shanmukharao Samatham
Chaitanya Bharathi Institute of Technology

Media

Putative Quantum Critical Point in Do

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)

Kokapet (V), Gandipet (M), Hyderabad 500 075, India

Dr. S. Shanmukharao Samatham
Assistant Professor, Department of Physics

Mobile: +91-8779645133, +91-9630680607
Email: shanmukharao_physics@cbit.ac.in

10.04.2023

To,

The Principal

Chaitanya Bharathi Institute of Technology (A)

(Through Head of the Department and Director R&D)

**Subject: OD Leaves and Financial Support to attend
INTERMAG 2023, Sendai, JAPAN-Requesting**

Dear Sir,

I am happy to bring to your notice that my digest entitled "Putative Quantum Critical Point in Doped Skyrmion Binary Alloys" to IEEE International Magnetics Conference 2023 (INTERMAG 2023) has been accepted for the ORAL Presentation (ID: UOB-05). The conference will be held at Sendai International Centre, Japan during 15-19th May, 2023.

I am also pleased to inform you that Science and Engineering Research Board (SERB) has approved the financial assistance to attend the conference. However, the financial assistance is limited to *air-fare* (round-trip, economy class, shortest route), *airport-tax* and *visa fees* only. The registration fee, accommodation and local travel will not be reimbursed by SERB. SERB has not agreed to bear registration fee, despite my request.

In this regard, I sincerely request you to approve official duty (OD) leaves (tentatively from May 15-22, 2023) and the financial support towards the registration fee and accommodation from the institution funds. An approximate estimation of the expenses is as follows.

S. No.	Purpose	Fee	Currency	Fees in INR
1.	Registration Fee	850	USD	70,000
2.	Accommodation (4000 Yen Per Day)	24000	Yen	15,000
3.	DA (As admissible) (100 USD Per Day)	600	USD	49,000

1,34,000

Looking forward to hearing from you favourably.

Enclosure(s):

1. Acceptance Letter/Email from INTERMAG Conference
2. Financial Support Letter from SERB
3. Non-eligibility letter for registration fee from SERB
4. Registration rates as per INTERMAG 2023

Just want are the
benefits that accrue
to College.
Sincerely,

(Dr. S. Shanmukharao Samatham)

10/4/23

Forwarded
10/4/23
Received 10/4/23
12/5

HR
13/04/2023

What is the
recommendation
of the Principal

Submitted to President

A. Benefits to the Institute

- The conference theme aligns with his research field i.e. magnetism of materials. He will get larger exposure to the other applications of magnetism. Symposia talks by experts (across globe) on the emerging research fields opens up a new pathway. AI/ML approaches to futuristic materials may ~~also~~ give scope to work interdisciplinary research by Mech/Electrical/ECE/CSE and IT faculty members where he ~~can~~ will coordinate. He ~~will~~ will try the collaborations with other reputed institutions.
- We can claim, the faculty deputation to International Conference to other nations
- SERP (Science and Engineering Research Board) approved his travel air fare, airport tax and Visa fees.

I am recommending him to attend the conference to gain the knowledge on the wide applications of magnetic materials and to encourage his research and pursue further to find the collaborators.


25/04/2023
Principal


President.

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)

Kokapet (V), Gandipet (M), Hyderabad 500 075, India

Dr. S. Shanmukharao Samatham
Assistant Professor, Department of Physics

Mobile: +91-8779645133, +91-9630680607
Email: shanmukharao_physics@cbit.ac.in

BENEFITS TO THE INSTITUTE BY THE PROPOSED VISIT
(INTERMAG 2023, Sendai, Japan)

Financial:

1. An approved financial support from SERB (to attend the conference through International Travel Support Scheme) to reimburse air-fare, airport tax and visa fees, amounting to approx. 2,05,000/- (or actuals) will be credited to the Institute R&D Account. This item can be shown in NAAC Criterion 3 under the sub-metric 3.2.1.
 - a. 3.2.1: Grants from Government and non-governmental agencies for research projects, endowments, Chairs in the institution
2. In principle, SERB funds only partially towards the international travel to the faculty/students of public and private academic institutions. The balance amount of the visit expensed are to be borne by the parent institute, usually practiced by the higher educational institutions such as IITs and Central Universities.
3. The financial expenditure for *the characterization of materials using sophisticated state-of-the art facilities* will be saved if a mutual collaboration is successful between our institution and the abroad universities/research institutions.


Research Growth:

4. Interaction with eminent scientists for deeper exploration of the concepts to reach out at a good and logical understanding.
5. Efforts will be put forward to make scientific collaborations for mutual exchange of ideas and experimental & theoretical support, in particular in the field of condensed matter and materials science.
6. Improving the quality of research publications by characterizing the materials using advanced and state-of-the-art facilities, shared by the international collaborators.
7. Possibility of our students to visit abroad if a proper exchange research program is established.

In addition, the financial support from SERB and the institute contribute to the following points for the accreditation purpose.

Accreditation Bodies:

1. NIRF
 - a. **Parameter 2: Research and Professional Practice**
 - i. Combined metric for Publications (PU)
 - ii. Combined metric for Quality of Publications (QP)
 - iii. Footprint of Projects and Professional Practice (FPPP)
2. NAAC
 - a. **Criterion 3: Research, Innovation and Extension**
 - i. 3.1 Promotion of Research and Facilities
 1. 3.1.2 Seed money to its teachers for research (the sought support from the institute can be shown under this criterion)


(Dr. S. Shanmukharao Samatham)

Intermag 2023 Conference Digest Status for ID 3890347

Intermag 2023 <onbehalf@abstractcentral.com>
Reply-To: authorsupport@intermag.org
To: shanmukharao_physics@cbit.ac.in

Sat, Feb 18, 2023 at 3:49 AM

Dear Dr. S. Shanmukharao Samatham,

On behalf of the Program Committee, we are pleased to inform you that your **digest has been accepted** for the Intermag 2023 Conference.

Title: Putative Quantum Critical Point in Doped Skyrmion Binary Alloys
Presentation Type: Oral
Digest Designation: UOB-05

Please confirm your participation (in-person, virtual or decline) no later than 10 March 2023, by responding to the questions at the bottom of your invitation.

To view your invitation, click on the link below to log in to the ScholarOne website and view your invitation in the Message Center. Under the "Action" column, click "View and Respond" from the dropdown box to view your invitation details. Carefully review the invitation which has detailed information about your digest acceptance and upcoming deadlines. You may go back at any time to view your invitation, by clicking on Messages>Invitations.

<https://intermag2023.abstractcentral.com>

Your User ID is: Samatham

Your Password is: Forgot Password Link

*User ID and Password are case-sensitive. This means they must be entered on the login screen exactly as they appear above, using the same capitalization.

The onsite schedule will be created after the 10 March deadline and all in-person presenters will be notified of their presentation date/time once the schedule is finalized by the Program Chairs.

We thank you for your contribution to the program.

Sincerely,
Regina Mohr
Abstracts & Publications Manager

On behalf of Elke Arenholz, Robert Hicken, and Kenji Nakamura
Intermag 2023 Conference Program Co-Chairs
Emails: elke.arenholz@pnnl.gov, R.J.Hicken@exeter.ac.uk, and kenji.nakamura@tohoku.ac.jp

- ▶ You can now add notes corresponding to this proposal. Click [Add Note](#) to add one now!
- ▶ These notes will be available only for your own reference and will not be shared with any one else.
- ▶ Hide / Show notes using [Hide Note\(s\)](#)

File No : ITS/2023/000639 (Ver-1)

Application for ITS

Proposed By: PI
Submission Date : 02 March, 2023

[Download Proposal](#)

Event Details

IEEE International Magnetics Conference, INTERMAG 2023

(15 May, 2023 to 19 May, 2023)
IEEE Magnetics Society and the Magnetics Society of Japan, Sendai (●
Japan)
<https://2023.intermag.org/>

Condensed Matter Physics and Materials Science (Physical Sciences)

Applicant Details

Dr. S Shanmukharao Samatham (Senior Scientist)

Assistant Professor, Physics
sssrao@mvgprce.edu.in
Date of Birth : 29 August, 1986 (36 years and 8 months and 16 days)
Contact No. : +918779645133
Passport No. : Z4643378

Chaitanya Bharathi Institute Of Technology

(College (Private))
Gandipet, Hyderabad, Telangana
Hyderabad-500075 (Telangana)

Purpose of Visit

Event Type : Conference

Presenting Paper : Oral

No of Paper to be presented : 1

Author : S. Shanmukharao Samatham, S. Shravan Kumar Reddy, Akhilesh Kumar Patel, and K. G. Suresh

Visit Schedule : 13 May, 2023 to 21 May, 2023

Abstract(s) Paper(s) Details : Putative Quantum Critical Point in Doped Skyrminon Binary Alloys S. Shanmukharao Samatham¹, S. Shravan Kumar Reddy¹, Akhilesh Kumar Patel²,³ and K. G. Suresh² ¹Department of Physics, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad 500 075, India
²Research Centre for Magnetic and Spintronic Materials, National Institute for Materials Science, Tsukuba, Ibaraki 305 0047, Japan ³Magnetic Materials Laboratory, Department of Physics, Indian Institute of Technology Bombay, Powai, Mumbai 400 076, India

Qualification Details

Post Doctorate (2018)

Indian Institute of Technology Bombay, Mumbai
Subject : Physics
Class/Division :
Worked as Institute Postdoctoral Fellow in the Department of Physics.

Ph.D. (2016)

Devi Ahilya University, Indore and UGC-DAE Consortium for Scientific Research, Indore
Subject : Physics
Class/Division : First

M.Phil. (2010)

Devi Ahilya University, Indore and UGC-DAE Consortium for Scientific Research, Indore
Subject : Physics
Class/Division : First
Marks : 81.30 Percentage

MSc (2008)

Pondicherry University, Puducherry
Subject : Physics
Class/Division : First
Marks : 8.32 CGPA

Bachelors Degree (2006)

Andhra University, Visakhapatnam
Subject : Mathematics, Physics and Chemistry
Class/Division : First
Marks : 73.78 Percentage

Significant Publications

1. Magnetic behavior of Ru substituted skyrmion metal MnSi (2022)

Authors : S. Shanmukharao Samatham, Saurabh Singh, Akhilesh Kumar Patel, S. Shravan Kumar Reddy, Tsunehiro Takeuchi, and K. G. Suresh
 Journal Name : JOURNAL OF PHYSICS-CONDENSED MATTER
 Journal Volume : 34
 Journal Issue :
 Start-End Page : 345801-1 - 345801-8
 Corresponding Author : Yes

2. Nearly compensated ferrimagnetic behaviour and giant exchange bias of hexagonal Mn₂PtAl: experimental and theoretical studies (2022)

Authors : Akhilesh Kumar Patel, S. Shanmukharao Samatham, Alexey V. Lukoyanov, P. D. Babu and K. G. Suresh
 Journal Name : PHYSICAL CHEMISTRY CHEMICAL PHYSICS
 Journal Volume : 24
 Journal Issue :
 Start-End Page : 29539 - 29546
 Corresponding Author : Yes

3. Magnetism and transport behaviour of Ni₄Co₈Mn₃₈Sb₁₂: Magnetization, electrical resistivity and Hall effect measurements (2022)

Authors : Akhilesh Kumar Patel, S. Shanmukharao Samatham and K. G. Suresh
 Journal Name : MATERIALS RESEARCH BULLETIN
 Journal Volume : 146
 Journal Issue :
 Start-End Page : 111577-1 - 111577-8
 Corresponding Author : No

4. Non-collinear antiferromagnetism to compensated ferrimagnetism in Ti(Fe_{1-x}Co_x)₂ (x = 0, 0.5 and 1) alloys: Experiment and Theory (2021)

Authors : S. Shanmukharao Samatham, Akhilesh Kumar Patel, A. V. Lukoyanov, K. G. Suresh and R. Nirmla
 Journal Name : PHYSICAL CHEMISTRY CHEMICAL PHYSICS
 Journal Volume : 23
 Journal Issue :
 Start-End Page : 5607 - 5614
 Corresponding Author : Yes

5. Disorder-induced critical exponents near a ferromagnetic quantum critical point in Mn_{1-x}Cr_xSi (2020)

Authors : Ashish Kumar Mishra, S. Shanmukharao Samatham, Martin R. Lees, and V. Ganesan
 Journal Name : PHYSICAL REVIEW B
 Journal Volume : 101
 Journal Issue :
 Start-End Page : 144436-1 - 144436-7
 Corresponding Author : No

6. Critical exponents and universal magnetic behavior of noncentrosymmetric Fe_{0.6}Co_{0.4}Si (2018)

Authors : S. Shanmukharao Samatham and K. G. Suresh
 Journal Name : JOURNAL OF PHYSICS-CONDENSED MATTER
 Journal Volume : 30
 Journal Issue :
 Start-End Page : 215802-1 - 215802-8
 Corresponding Author : Yes

7. Quantum phase transition and non-Fermi liquid behaviour in Fe_{1-x}Co_xSi (x ≥ 0.7) (2018)

Authors : S. Shanmukharao Samatham, K. G. Suresh and V. Ganesan
 Journal Name : JOURNAL OF PHYSICS-CONDENSED MATTER
 Journal Volume : 30
 Journal Issue :
 Start-End Page : 145602-1 - 145602-9
 Corresponding Author : Yes

Financial Details

Anticipated Expenses Details

SNo.	Budget Description	Funding Required from SERB (in Rs.)
1	Fare both ways (Air, Train)	2,00,000
2	Visa Fee	5,000
	Grand Total (in Rs.)	2,05,000

Financial Assistance Details from Other Sources

Not Available

Details of International events attended during last three years

Event Name	From Date	To Date	Country	City	Sponsored/Funded By
Intermag 2017	24 April, 2017	28 April, 2017	Ireland	Dublin	Indian Institute of Technology Bombay
Research Opportunity Week (ROW)	11 November, 2013	15 November, 2013	Germany	Munich	Technical University Munich

Any other information

Abstract: We report on Cr substitution triggered changes in the magnetic properties of a skyrmion binary alloy (Fe_{1-x}Cr_x)_{0.6}Co_{0.4}Si using x-ray diffraction and magnetization measurements. The x-ray diffraction patterns reveal an unaltered B20 cubic crystal structure with increasing lattice constant. Magnetization analysis infers that the helical magnetic ordering of Fe_{0.6}Co_{0.4}Si is gradually suppressed to the absolute zero for the concentrations above x ≥ 0.4. Such a suppression is a clear indication of doping/substitution driven quantum phase transition with a quantum critical point to fall within 0.3 ≤ x ≤ 0.4.

Intermag 2023 Conference Digest Status for ID 3890347

Intermag 2023 <onbehalf@abstractcentral.com>
Reply-To: authorsupport@intermag.org
To: shanmukharao_physics@cbit.ac.in

Sat, Feb 18, 2023 at 3:49 AM

Dear Dr. S. Shanmukharao Samatham,

On behalf of the Program Committee, we are pleased to inform you that your **digest has been accepted** for the Intermag 2023 Conference.

Title: Putative Quantum Critical Point in Doped Skyrmion Binary Alloys
Presentation Type: Oral
Digest Designation: UOB-05

Please confirm your participation (in-person, virtual or decline) no later than 10 March 2023, by responding to the questions at the bottom of your invitation.

To view your invitation, click on the link below to log in to the ScholarOne website and view your invitation in the Message Center. Under the "Action" column, click "View and Respond" from the dropdown box to view your invitation details. Carefully review the invitation which has detailed information about your digest acceptance and upcoming deadlines. You may go back at any time to view your invitation, by clicking on Messages>Invitations.

<https://intermag2023.abstractcentral.com>

Your User ID is: Samatham

Your Password is: Forgot Password Link

*User ID and Password are case-sensitive. This means they must be entered on the login screen exactly as they appear above, using the same capitalization.

The onsite schedule will be created after the 10 March deadline and all in-person presenters will be notified of their presentation date/time once the schedule is finalized by the Program Chairs.

We thank you for your contribution to the program.

Sincerely,
Regina Mohr
Abstracts & Publications Manager

On behalf of Elke Arenholz, Robert Hicken, and Kenji Nakamura

Intermag 2023 Conference Program Co-Chairs

Emails: elke.arenholz@pnnl.gov, R.J.Hicken@exeter.ac.uk, and kenji.nakamura@tohoku.ac.jp

SCIENCE & ENGINEERING RESEARCH BOARD (SERB)
(Statutory Body Established Through an Act of Parliament : SERB Act 2008)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

File Number: ITS/2023/000639

Dated: 06-Apr-2023

To
Dr. S Shanmukharao Samatham,
Chaitanya Bharathi Institute Of Technology , Gandipet, Hyderabad, Telangana , Hyderabad, Telangana-500075

Subject: Financial Assistance to Dr. S Shanmukharao Samatham for participating in " IEEE International Magnetics Conference, INTERMAG 2023, Japan (15 May, 2023 to 19 May, 2023)"

Sir/Madam

We are happy to inform you that your application seeking financial grant to attend the above mentioned international scientific event has been recommended for support by the Science and Engineering Research Board (SERB). **We will provide to and fro economic class air-fare by the shortest route, airport tax & visa fees.** It is hoped that the support will give you an opportunity to interact with leading international experts in the area. The support, however, is subject to the following conditions.

1. You should not have received financial support during the last three years under this scheme.
2. The air tickets are to be booked in economy class at "**Lowest Available Fare**" on the date of booking. It may be noted that rescheduling/cancellation charges will not be reimbursed.
3. SERB is directed to instruct the applicant to purchase the air tickets either of these two Govt. authorized travel agents viz. i) M/s Balmer Lawrie & Company Limited (BLCL) and ii) M/s Ashok Travels & Tours (ATT). In case of failure of adherence to this guideline, air fare will not be reimbursed.
4. The candidate availing ITS must have to submit the certificate for "**Lowest Available Fare**" at the time of reimbursement..
5. The signed print copy of Claim Form along with the original Boarding passes and other relevant documents must be sent to the SERB immediately after completing the online Claim Form to the following address.

ITS Section
3rd & 4th Floor, SERB Block II
Technology Bhavan, New Mehrauli Road
New Delhi 110016
6. The account details must be in the format available at the home page of the online portal in the format section and it must be endorsed by the competent authority of the institute/university.
7. SERB will reimburse the grant after deducting the financial assistance received from any other sources, if any.
8. All other expenses such as per diem, taxi fare etc. will not be reimbursed by SERB.
9. You will have to make your own arrangements for foreign exchange required for the purpose.
10. You will not be treated as a delegate sponsored by the Government of India.
11. We request you to either accept or decline this offer at the earliest online. On acceptance only, you will be able to submit the Claim Form. Please note that once you decline this offer, it will be assumed that you are not interested in availing this offer and no further communication will be entertained in this matter.
12. You must submit Claim Form and other relevant documents online within 90 days of the Last Date of the Event, failing which SERB will not reimburse the Travel Grant.
13. If any candidate found to have furnished incorrect / misleading information at any stage, his/her candidature will be cancelled and no reimbursement will be made. The candidate will also be debarred for next three years for availing support under this scheme.

Disclaimer:

1. Financial support will be provided for physical attendance in the event. No support will be provided in case of online/web attendance.
2. No financial support will be provided other than approved items as mentioned above. SERB will not be responsible to bear any other cost borne by the candidate.

With kind regards,

S Shanmukharao Samatham

✉ sssrao@mvgrce.edu.in

📄 ITS/2023/000639

📍 IEEE International Magnetism Conference, INTERMAG 2023, Japan (15 May, 2023 to 19 May, 2023)

10-Apr-2023

SERB File Number: ITS/2023/000639 RE : SERB File Number: ITS/2023/000639 Registration Fee-Requesting and Regarding

From: Dr. Sukumar Dey
Dear Sir/Mam,

As per scheme policy and guidelines already mentioned on our website www.serbonline.in, anyone above 35 years of age is not eligible to claim registration fee. SERB will only cover airfare and visa fee, there is no provision to cover any other expenses.

Regards,



DATES

Flat Rate Wednesday, February 1 – Friday, August 18, 2023



Registration Rates

Onsite Participation

Unit: U.S. Dollars

ONSITE MEMBER (*)	ADVANCED RATE (FEB. 1 - APR. 14)	STANDARD (APR. MAY 19)
Full	\$680	\$780
Student	\$280	\$330
Life Member/Retiree/Unemployed	\$280	\$280



ONSITE NON-MEMBER	ADVANCED RATE (FEB. 1 - APR. 14)	STANDARD (APR. 15 - I
Full	\$850	\$950
Student	\$330	\$390



Virtual Participation

Benefits of attending the conference

1. The conference theme aligns with my research field (magnetism of materials) with large exposure to the other technical applications of magnetism.
2. Symposia Talks by Experts, coming from across the globe, on the following emerging research fields opens up a new pathway for future research.
 - a. **AI/ML Approaches for the Development and Discovery of Future Magnetic Materials.**
CLAUDIA FELSER (Germany), MINGDA LI, Massachusetts Institute of Technology (USA), MASAFUMI SHIRAI, Tohoku University (Japan), YUMA IWASAKI National Institute for Materials Science (Japan) etc.
 - b. **Fundamentals of Magnetic Nanoparticles: Recent Insights in Structure-Property Relations**
OSCAR IGLESIAS, University of Barcelona (Barcelona), AIDIN LAK, Technical University Braunschweig (Germany)
 - c. **New Designs and Developments in Soft Magnetic Materials and Magnetic Cores for Power Electronics Technology Needed for Carbon Neutral Society**
OLIVIER DE LA BARRIÈRE National Institute for Materials Science, (Japan), SATOSHI OKAMOTO Tohoku University (Japan) and TOSHIHISA SHIMIZU, Tokyo Metropolitan University (Japan)
3. International exposure to enrich and accelerate the research activities of the self and department by establishing the collaborations internationally.
4. Access of state-of-the art facilities from abroad for an effective research leading to the high impact factor journals publications.
5. The interaction with the scientists delivering the special talks will help to expand my research area towards technical and industrial aspects.
6. Technical Session
 - a. Tutorial on 'Magnetic sensors for industrial and automotive applications'
Dr. Wai Lee, Texas Instruments helps to drive my research towards industrial applications.
7. Plenary talk by an eminent Professor Masaki Takata is aimed to open up a new research opportunities through Next Generation Synchrotron Light Source in Japan. We have ample scope of applying for synchrotron facilities for socially impactful research, including the achievement of Sustainable Development Goals.

8. Overall, the research activities in the department/wishful can be strengthened.



Intermag 2023
Sendai, Japan
May 15 - 19, 2023

as of April 24, 2023

Confirmed Symposia and Invited Speakers

SYMPOSIA SPEAKERS

AI/ML Approaches for the Development and Discovery of Future Magnetic Materials

CLAUDIA FELSER
Max-Planck-Gesellschaft

MINGDA LI
Massachusetts Institute of Technology

NICOLAS REGNAULT
Laboratoire de Physique de l'Ecole
Normale Supérieure

ALEXANDER KOVACS
Danube University Krems

YUMA IWASAKI
National Institute for Materials Science

MASAFUMI SHIRAI
Tohoku University

Coherent Magnon Interactions

GYORGY CSABA
Pazmany Peter Catholic University

YI LI
Argonne National Laboratory

KATRIN SCHULTHEISS
Helmholtz-Zentrum Dresden-Rossendorf

MEHRDAD ELYASI
Tohoku University

JORGE PUEBLA
RIKEN

Fundamentals of Magnetic Nanoparticles: Recent Insights in Structure-Property Relations

DAVID SERANTES ABALO
Universidad Santiago de Compostela

OSCAR IGLESIAS
University of Barcelona

NORBERT LOEWA
Physikalisch-Technische Bundesanstalt

SABRINA DISCH
University of Duisburg-Essen

AIDIN LAK
Technical University Braunschweig

LOURDES MARCANO
University of Oviedo

Latest Advances in Magnetic Nanotechnology

AGUSTINA ASENJO
ICMM

DUSTIN GILBERT
University of Tennessee

VALENTYN NOVOSAD
Argonne National Laboratory

KEREM CAMSARI
University of California, Santa Barbara

EMILIE JUÉ
National Institute of Standards and
Technology

PRAMEY UPADHYAYA
University of Purdue

Modeling, Design, Construction and Analysis of Electrical Machines for Sustainable Applications

CHRISTOPHE ESPANET
Moving Magnet Technologies SA

EDWARD GRIFFIN
University of Warwick

QINFEN LU
Zhejiang University

CHRISTOPHE GEUZAINÉ
University of Liège, Montefiore Institute

ANTONIOS KLADAS
National Technical University of Athens

SMAIL MEZANI
Laboratoire GREEN - FST, Université de
Lorraine

New Designs and Developments in Soft Magnetic Materials and Magnetic Cores for Power Electronics Technology Needed for Carbon Neutral Society

OLIVIER DE LA BARRIÈRE
National Institute for Materials Science

SATOSHI OKAMOTO
Tohoku University

TOSHIHISA SHIMIZU
Tokyo Metropolitan University

MICHAEL MCHENRY
Carnegie Mellon University

TOSHIRO SATO
Shinshu University

LUIGI SOLIMENE
Politecnico di Torino



Intermag 2023
Sendai, Japan
May 15 - 19, 2023

as of April 24, 2023

What is the Place of Magnetic Materials in Tomorrow's Chips?

CHRISTOPH ADELMANN
IMEC

RICCARDO BERTACCO
Politecnico di Milano

JULIE GROLLIER
Unité Mixte de Physique CNRS, Université
Paris Saclay

GUOHAN HU
IBM

ALEX JENKINS
International Iberian Nanotechnology
Laboratory

KOSURE MIYAU
Shinshu University

INVITED SPEAKERS

JAVIER ALONSO
University of Cantabria

 ABDELMADJID ANANE
Université Paris-Saclay

LE ANH
The University of Tokyo

CAN AVCI
Institut de Ciència de Materials de
Barcelona

SUBHANKAR BEDANTA
NISER, Bhubaneswar

JEFFREY BOKOR
University of California, Berkeley

DAVIDE BOSSINI
University of Konstanz

OLIVIER BOULLE
SPINTEC

DAVID CABRERA
Keele University

LUCAS CARETTA
Massachusetts Institute of Technology

LUANA CARON
Bielefeld University

DOĞA CEYLAN
Eindhoven University of Technology

JAN CHAMALIAN
Rutgers University

XUEMEI CHENG
Bryn Mawr College

SEBASTIEN COUET
IMEC

TRISTAN DA CAMARA GOMES
University of Louvain

SAROJ DASH
Chalmers University of Technology

PALLAVI DHAGAT
Oregon State University

ALEXSANDR DOBROVOLSKIY
University of Vienna

ANDREA ESCHENLOHR
Duisburg-Essen University

MARTA ESTRADER
Universidad de Barcelona

ADRIANA FIGUEROA
Universitat de Barcelona

JAROSLAV HAMRLE
Charles University in Prague

KEISUKE ISHIGAMI
Tohoku University

RAKSHIT JAIN
Cornell University

BENJAMIN JUNGFLAISCH
University of Delaware

KOSUKE KARUBE
RIKEN

SE KWON KIM
Korea Advanced Institute of Science and
Technology

A. V. KIMEL
Radboud Universiteit

TETSUO KOBAYASHI
Kyoto University

MIINA LEIVISKÄ
CEA-SPINTEC

ARTEM LITVINENKO
University of Gothenburg

BUTAO LIU
Doshisha University

STEPHANE MANGIN
Université de Lorraine

YANG MENG
Chinese Academy of Sciences

RAHUL MISHRA
Indian Institute of Technology Delhi

SHINJI MIWA
The University of Tokyo

ROBERT MOREL
SPINTEC

HANS NEMBACH
National Institute of Standards and
Technology

TERUO ONO
Kyoto Daigaku

Mikhail OTRUKOV
Centro de Física de Materiales (CSIC-
UPV/EHU)



Intermag 2023
Sendai, Japan
May 15 - 19, 2023

as of April 24, 2023

STUART PARKIN

Max Planck Institute for Microstructure
Physics

BHAGWATI PRASAD

Indian Institute of Science

OLEKSANDR PYLYPOVSKYI

Helmholtz-Zentrum Dresden-Rossendorf

XUEPENG QIU

Tongji University

SONKA REIMERS

University of Mainz - Singulus
Technologies

LAUREN RIDDIFORD

Stanford University

SUJOY ROY

Lawrence Berkeley National Laboratory

SANDRA RUIZ GÓMEZ

Max Planck Institute for Chemical Physics
of Solids

EIJI SAITOH

The University of Tokyo

RUSLAN SALIKHOV

Helmholtz-Zentrum Dresden-Rossendorf

TAISUKE SASAKI

National Institute for Materials Science

KILIAN SCHÄFER

Functional Materials

CHENG SONG

Tsinghua University

WEN SOONG

University of Adelaide

OLENA TARTAKIVSKA

Adam Mickiewicz University

ANDY THOMAS

TU Dresden, IFMP

PAOLA TIBERTO

INRIM

EVGENY TSYMBAL

University of Nebraska

VOJTECH UHLIR

Brno University of Technology

PAOLO VAVASSORI

CIC nanoGUNE

CLEMENS VON KORFF SCHMISING

Max Born Institut

DI XIAO

University of Washington

JU-YOUNG YOON

Tohoku University

SHINJI YUASA

National Institute of Advanced Industrial
Science and Technology

WEISHENG ZHAO

Beihang University

XIAOYAN ZHONG

City University of Hong Kong



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 28/07/23