THE LNM INSTITUTE OF INFORMATION TECHNOLOGY, JAIPUR (Deemed-to-be-University under De-Novo category and Section 3 of UGC Act 1956)

Event Report Format

S. No.	Particulars	Response	
1	Name of the Event/ Activity	Algebraic Quantum Physics : t	ntopy for
2	Program Type (FDP/ EDP/ UHV-FDP/ Conference/ Workshop/ Webinar/ Seminar/ Invited Talk/ Distinguished Lecture/ Induction Program/ Orientation Program/ Hackathon/ GIAN Course/ Sort-Term Course/ Training Session/ Cultural Activity/ Quiz Contest/ Debate/ Competition/ Sports Event/ Social Service Activity/ Awareness Program/ Charity Program/ Swachhta Program/ Healthcare Activity/ Others)	Invited talk cum Distinguished Lecture	
3	Theme of the Event (Technology/ Innovation/ Research Methodology/ IPR/ Start-up/ Entrepreneurship/ Skill Development/ Stress Management/ Motivation/ Gender Sensitization/ Women Empowerment/ Career Development/ Leadership/ Awareness Program/ Social Service/ Mentoring/ Road Show/ Exhibition/ Fun Activity/ Games/ Cultural Activity/ Disaster Management/ Environmental Awareness/ Others)	Academic Colloguium (Others)	
4	Program Level (National/ International/ Departmental/ Institutional/ District/ State)	In Stitutional	
5	Program Category (Institute Lead Activity/ Student Lead Activity)	Justitute head Activity	
6	Event Organized for? (Faculty/ Staff/ Students/ Industry Persons/ External Participants/ Open for All)	Open for all	
7	Program Starting Date (dd/mm/yyyy)	March 22, 2024	
8	Program Ending Date (dd/mm/yyyy)	March 22, 2024	一种 医多种
9	Program Duration (in hours)		
10	Event Organized by (Name of Department/ Centre/ Club/ Society/ Group)	Department of Physics	
11	Name and Contact details of Coordinator(s)	Rakeah Tiberewale	
12	Details of External Partner(s) or Sponsoring Body/ Organization, if any?		
13	Mode of Conduction (Online/ Offline/ Hybrid)	Offline	
14	Venue of the Event	LT-1	
15	Details of Participants (Please attach hard copy of the list of participants)		R SHARE
	(Please attach hard copy of the list of participants)	No. of Internal Students	25
		No. of Internal Faculty	14
		No. of Internal Staff	
		No. of External Students	
		No. of External Faculty	
		No. of External Staff	LE SECULI
		No. of Industry Persons	
		No. of International Participants	
		Total Participants	40

		17. 为正式的最后的基础的
16	Details of Invited Speakers/ Experts/ Industry Persons/ Guests (Name, Designation, Organization/ Industry Name)	Profo A. P. Bole chandran Syracuse University
17	Funding details	Expenses from the Institute Fund Grant received from Sponsoring or Partnering Body/ Organization Grant received from Govt. Bodies
-12		Total Expenditure
18	Details of the Winners along with Prize details? If any.	
19	Brief note about the event	the colloquium highlighted new developments taking place in quantum physics. There was decent participation of faculty of students in the tolk of the participants also had several questions of there was a good immount of decens surge of after the talk.
20	Program Outcome? If any	Swig tafter the talk.
21	Google Drive Link of Geotagged and Simple Photographs (Please upload photographs on your google drive and share the link here with editing rights)	

Supporting Documents to be attached with the report:

- 1. Copy of participation certificates if issued to the participants
- 2. Copy of Poster/ Flier/ Brochure of the activity
- 3. Copy of the email/notice circulated
- 4. List of the participants (Faculty/ Staff/ Students/ External Participants etc.)
- 5. List of the Winners, if any
- 6. Copy of Agreement/ MoU in case of collaborative activity
- 7. At least 5 Geotagged Photographs
- 8. At least 5 Simple Photographs

Important Notes:

- Soft copy along with all the applicable documents must be sent to events@Inmiit.ac.in
- Signed Hard copy along with all the applicable documents must be submitted in IDAAR Cell.

Date of report submission: March 22, 2024

Name and Signature of the Coordinator(s)

Reskerh Tiberwold



Dr. Rakesh Tibrewala <rtibs@lnmiit.ac.in>

Physics Colloquium

Dean Office <deanoffice@Inmiit.ac.in>

Thu, Mar 21, 2024 at 9:49 AM

To: LNMIIT_Faculty <faculty@Inmiit.ac.in>, Visiting Faculty <visitingfaculty@Inmiit.ac.in>, ug@Inmiit.ac.in, PG LNMIIT <pg@Inmiit.ac.in>, PhD <phd@Inmiit.ac.in>

Cc: "Dr. Rakesh Tibrewala" <rtibs@Inmiit.ac.in>

Dear Colleagues,

Prof. A. P. Balachandran from Syracuse University is visiting us. He will be giving a colloquium tomorrow. The details are as follows:

Title: Algebraic Quantum Physics: Entropy and Entanglement

Date: March 22, 2024 Time: 3:00 pm-4:00 pm

Venue: LT-01 Abstract

The world is quantum. The emergence of classical physics from it is an approximation. But what exactly is 'quantum'? Also its description using Hilbert spaces, as taught in basic courses, is mysterious. In this talk, it will be argued that this need not be the case. Thus while classical physics is probability theory on commuting observables, quantum physics is just its generalisation to noncommuting observables. The Hilbert space comes out of this observation using the basic 'Gel'fand-Naimark-Segal' (GNS construction). From this, we can also understand that 'wave functions' are not functions, in particular there is no a priori need for them to be single valued. Standard text books are misleading. Dirac showed this already in 1931 while discussing magnetic monopoles. We will use these ideas to discuss entropy, the second law, entanglement and phase transitions. The work of Sorkin et al. on black hole entropy using entanglement will also be mentioned,

All are welcome to attend.

Regards, rakesh

· Attendees of the Physics Colloquium by Prof. Balachandran (Rakest Tibrewerb (Faculty) (2) MONIT GUPTA (Faculty) (1) Pawan Kuman (Faculty)

(1) Ashou Gravai Faculty) (6) Rospesh condent) 6) S. Reghn) (PhD stretent) (7) Subhayan Rom (Facults) 8 PRATIBHA GARY (Faculty) (a) Pranay Reja (Student) (10) Vijay Sharmer (Student) (1) Vageesh suishon (Street) 19) Shistion S.D. (Student) 13) Njit S. Tothak (student) 14) Prateck Sharma (student) 15) Monta Jadare (student) 16> Anjali Jangid (Student) 17) Ishika Suigh (Student) 18) Jaya Kataviya (structul) (9) Ashwani Kumar (Student) 201 Abhishek (Stydent (21) Ram Prasad (Student) (22) Laxori Narayan Sharing (Staft) (23) Rishi Shekhawad (student)

(24) Divya (PhD Student) 25. G. Manideep (PhD)

Aufnash Kumor Subey (Ph.D. Student) Azad Rohilla (student) Chiprakash Tanged (PhD. Student) Ratan Kuman Crim (Faculty) Troved frush C. (Ph D. Student) Suhail Shah Amishi singh (ug student) Ponto chostal (Faulty) Nakul Agarwal Yashwardhan Jupta (UG Student) (UG Stadent) Amit News (Faculty) Mandst K. Single (faculty) (facult) M. K. Kadal bey'or HNUPAM SINGH! (FACULTY) Somorath frisias (faculty).

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