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#### CENTRAL UNIVERSITY OF KERALA

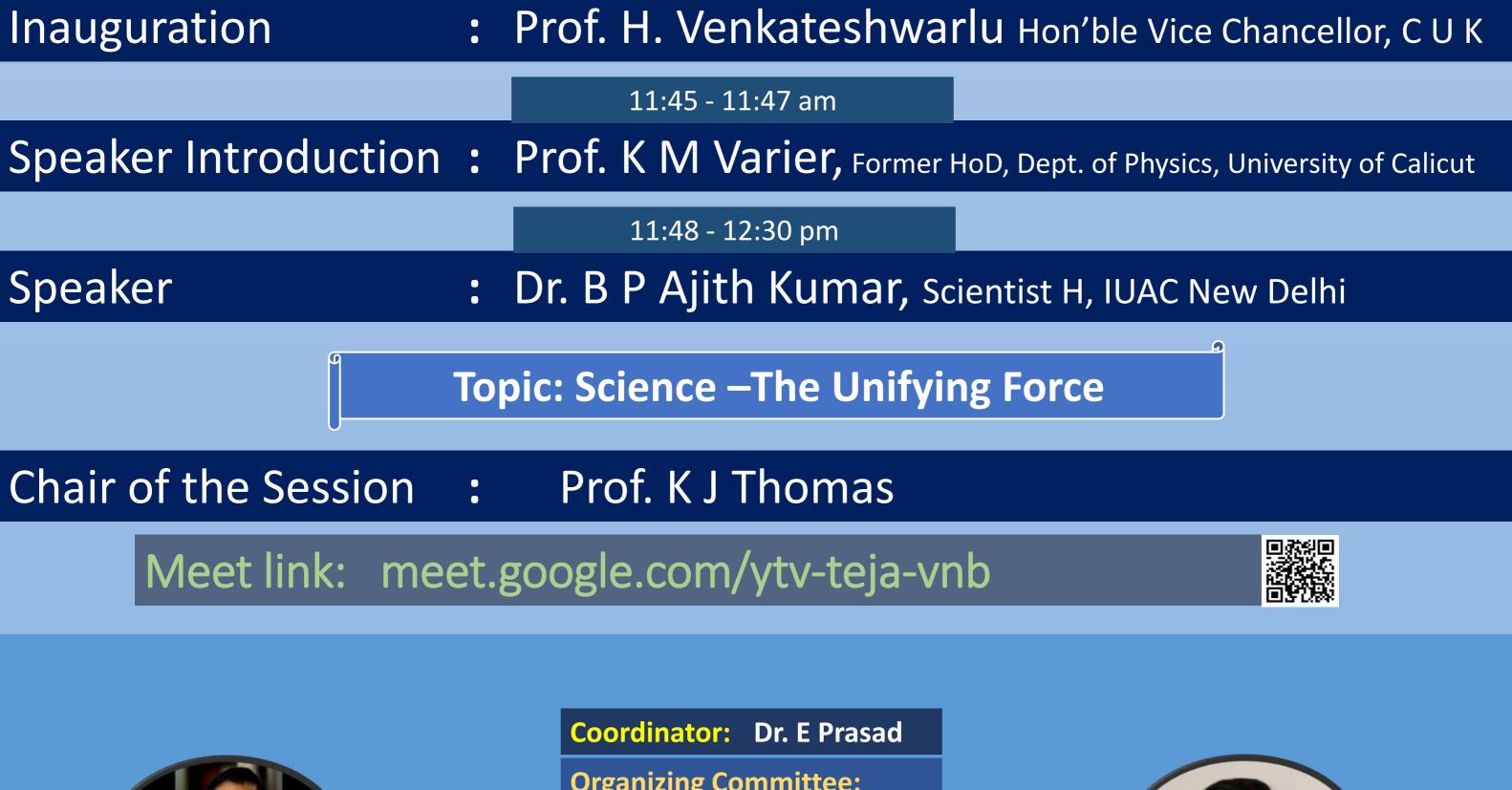
#### DEPARTMENT OF PHYSICS

#### REPORT

#### National Webinar Series (Science Day)

Department of Physics, CUK had conducted four days national webinar series in connection with National science day during February 22-26, 2021. The programme was inaugurated by Prof.Venkateshwarlu, Hon' Vice Chancellor, CUK and Dr.Prasad made introductory remarks Dr. Swapna S Nair, Head of the Department, CUK welcomed the gathering. Eminent speakers from various part of India delivered the talks during webinar series. During this webinar series the speakers emphasised the importance of scientific research and scientific temper. The webinar covered various topics from nuclear physics, astro physics, Bose Einstein Condensate and General talk on scientific temper. The webinar series provided the students participants and opportunity to learn about various cutting edge research areas and also given opportunities to interact with leading scientist across the country. Average of 64 participants attended the programme every day.

National .	Science Day Celebration 2021
केंद्रीय विश्वविद्यावय	(NSDC 2021)
	epartment of Physics ral University of Kerala
	onal Webinar Series
	Day-01 (22.02.2021)
	Program Schedule
	11:30 - 11:33 am
Introductory Remarks :	Dr. E Prasad, Co-ordinator, NSDC- 2021
	11:33 - 11:36 am
Welcome Speech :	Dr. Swapna S Nair, HoD, Dept. of Physics, CUK
	11:36 - 11:45 am
Inauguration :	Prof. H. Venkateshwarlu Hon'ble Vice Chancellor. C U K



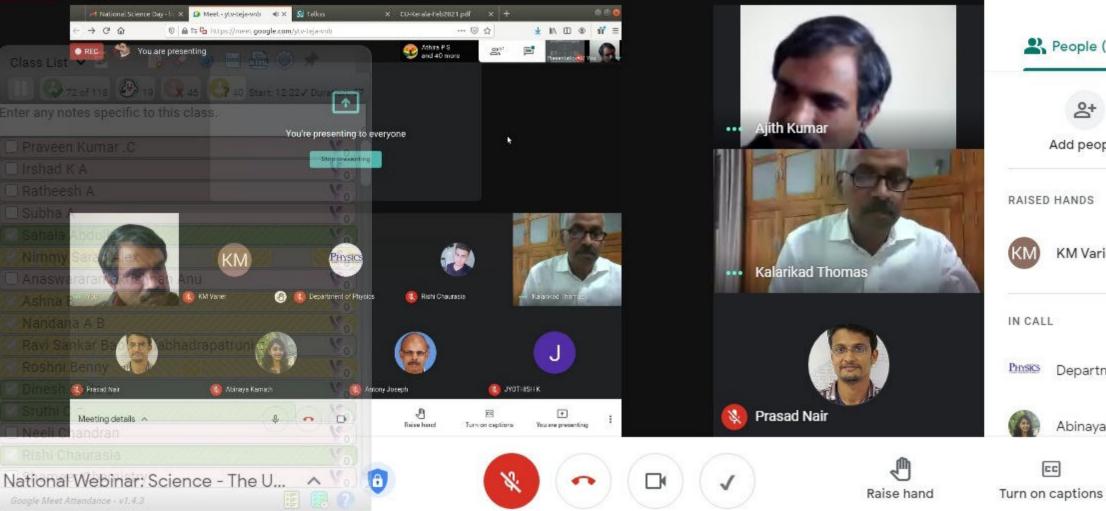
Prof. H. Venkateshwarlu Hon'ble Vice Chancellor, C U K Coordinator: Dr. E Prasa Organizing Committee: Dr. Swapna S Nair Dr. K J Thomas Dr. Vincent Mathew Dr. S C Sahoo Dr. P M Aneesh & Research Scholars



Dr. P B Ajithkumar https://scischool.in/talks/index.html



#### Ajith Kumar is presenting



National Webinar: Science - The U... E Chat People (51) 8+ 0 Add people Host controls RAISED HANDS 1 KM **KM** Varier IN CALL Д PHYSICS Department of Ph... (You) S. Abinaya Kamath ÷ + CC

Ajith Kumar

is presenting

### 004-1

#### National Science Day Celebration 2021 (NSDC-2021)

#### Webinar series

#### List of Participants on Webinar series Day-01 (22.02.2021)

1. Prof.(Dr.) Venkateshwaralu (Vice Chacellor, C U Kerala)

- 2. Dr. E Prasad
- 3. Aadithia Mohanan
- 4. Vincent Mathew
- 5. Prof. KJ Thomas
- 6. Dr. Swapana S Nair
- 7. Dr. PM Aneesh
- 8. Dr. S C Sahoo
- 9. Abhisek Mallick
- 10. Abinaya Kamath
- 11. adithya s nair
- 12. Adithyan thrithallor
- 13. Aiswarya Robert
- 14. AJAY MOHAN K
- 15. Ajith Kumar
- 16. AKASH DOMINIC THOMAS
- 17. Akhila Gopinath
- 18. amisha t
- 19. Anaghamrutha p v
- 20. Anees K T
- 21. Anjali T Vinod
- 22. Antony Joseph
- 23. ARDRA SURENDRAN KP
- 24. ashna b
- 25. ASWATHI PK
- 26. Athira PS
- 27. Cristeena Devassia
- 28. Department of Physics
- 29. Dinesh Boda
- 30. Divya M
- 31. Dr KJ Thomas Prof Physics
- 32. Dr. S. Kailas
- 33. Ganga R Nair
- 34. Greeshma K
- 35. Irene Joy Valiaveetil
- 36. jeswin Raju

37. JYOTHISH K

38. KM Varier

39. M P

40. Manjunaath M K

41. MEGHNA M

42. Nandana A B

43. Nandhakishor klsry

44. Nimmy Sarah Alex

45. Nitheeshpraba Mohan

46. Nithya Madhu

47. PARVATHY M R

48. pavan kumar

49. Priyabrat Das

50. Rakesh S

51. Ravi Sankar Babu Balabhadrapatruni

52. Mohammed Shameer

53. Rishi Chaurasia

54. Roshni Benny

55. Ruksana

56. Sabeel PK

57. SAHALA ABDULLA

58. Sandeep K S

59. SANGEETHA CK

60. shilna kv

61. Shiva Prasad Nayak

62. SILPA CS

63. Sruthi C

64. Sudhansu Rayaguru

65. Yadukrishnan Yadu Pvr

66. Zeenath

009-1

#### National Science Day Celebration 2021 (NSDC-2021)

#### Webinar series

#### Feedback

Prasad Nair 1:11 PM

please provide feedbacks. KM Varier

1:12 PM

Very interesting topic and ery well presented by Dr. ajith. Rishi Chaurasia 1:12 PM

A very thought provoking and enlightening talk ! Adithyan thrithallor

1:15 PM

Great presentation. Today social media is floaded with pseudo science. This presentation very thought provoking. Given us light to think clearly. Thank u sir

AKASH DOMINIC THOMAS 1:16 PM

The talk and the topics is a clear reminder that the world needs more scientist and people of science. I personally find the talk to be thought provoking . Thankyou sir !!!

#### Day 1: 22-02-2021, Monday,

Speaker: Dr B P Ajith Kumar, Senior Scientist (H), Inter University Accelerator Centre, New Delhi Topic: Science: the unifying force

Science day celebration was inaugurated by Prof. Venkateswarlu, Hon'ble VC CUK at 11.20 AM.

Dr Prasad made introductory remarks. Dr Swapna S Nair welcomes the audience and Prof. K. M. Varier, former Head, Department of Physics, Calicut University introduced the speaker. Prof. K. J. Thomas chaired the session.

Dr B P Ajith Kumar in his talk took the participants through the developments of Science. He disclosed the pseudo-science and the propaganda based on false claims. He emphasised that science is the only religion and the nature is the holy book of this religion. The talk was very thought provoking and informative.

Prof Thomas moderated the interaction sessions. More than 60 participants attended the webinar. Dr E Prasad proposed vote of thanks.

National .	Science Day Celebration 2021
केंद्रीय विश्वविद्यान्नुम	(NSDC 2021)
	epartment of Physics tral University of Kerala
Nati	onal Webinar Series
	Day-02 (24.02.2021)
	Program Schedule
	11:00 - 11:03 am
Introductory Remarks :	Dr. E Prasad, Co-ordinator, NSDC- 2021
	11:04 - 11:08 am
Welcome Speech :	Dr. Swapna S Nair, HoD, Dept. of Physics, CUK
	11:09 - 11:15 am
Sneaker Introduction .	Prof A M/Vinodkumar Hop Dont of Physics

## Speaker Introduction : Prof. A.IVI VINOGKUMAR, HoD, Dept. of Physics, University of Calicut

### 11:16 - 12:30 pm

Speaker

**: Prof. S Kailas**, Former Director, Nuclear Physics Division, BARC & INSA Senior Scientist

**Topic:** Nuclear Science, Technology and Society

## Chair of the Session : Prof. Vincent Mathew

## Meet link: meet.google.com/acs-fgng-vne

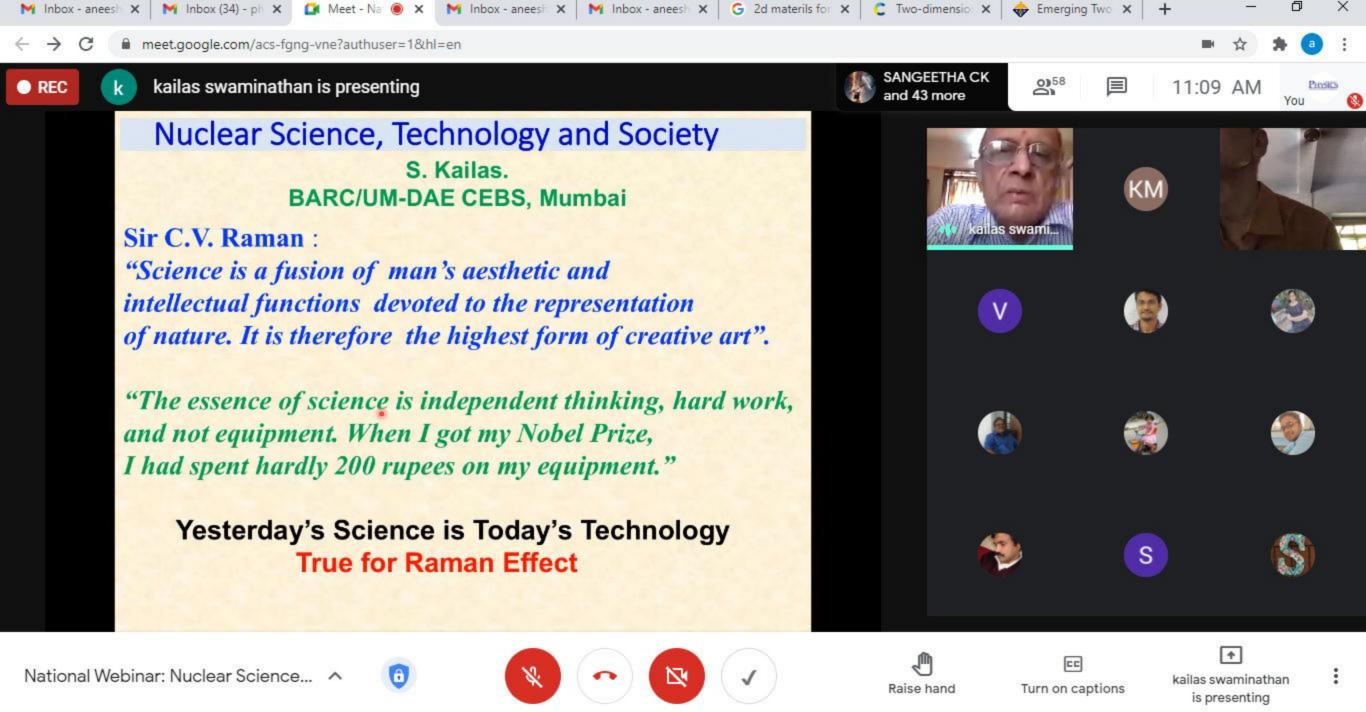


### **Coordinator:** Dr. E Prasad

Organizing Committee: Dr. Swapna S Nair Dr. K J Thomas Dr. Vincent Mathew Dr. S C Sahoo Dr. P M Aneesh & Research Scholars



**Prof. S Kailas** 



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24-02-2021

Attendance for:	Class List			
Date:	"2021-02-24"	"Time:"	"10:38"	"

"Meet ID:' "acs-fgng-vne"

			"Commen	"Arrival	"Last	"# of
Names	"2021-02-24"	"Email"	ts"	time"	Seen"	Checks"
Aadithia Mohanan	" 🗸 "			"10:55"	"12:46"	"34"
Abinaya Kamath	" 🖌 "		1111	"11:00"	"12:46"	"57"
Ahammed Ali Naseef	" 🖌 "			"11:00"	"12:36"	"15"
Ajay Mohan K	" 🖌 "			"11:04"	"12:21"	"8"
Ajith Kumar	" 🖌 "			"10:52"	"12:46"	"99"
Akash Dominic Thomas	" 🖌 "		1111	"10:58"	"10:58"	"1"
Akhila Gopinath	" 🖌 "			"11:04"	"11:06"	"3"
Amisha T	" 🖌 "			"12:02"	"12:06"	"5"
Anaghamrutha P V	" 🖌 "			"11:06"	"12:18"	"3"
Anees K T	" 🖌 "			"10:54"	"12:46"	"48"
Anjali T Vinod	" 🖌 "			"10:54"	"11:06"	"4"
Ardra Surendran Kp	" 🖌 "			"11:04"	"12:46"	"51"
Aseefa Azeez	" 🖌 "			"10:58"	"11:06"	"4"
Ashna B	" 🖌 "			"11:04"	"12:46"	"59"
Athira P S	" 🗸 "			"12:02"	"12:28"	"27"
Bhabani Sankar Sahoo	" 🖌 "			"10:53"	"11:45"	"40"
Department Of Physics	" 🗸 "			"10:38"	"12:46"	"32"
Dinesh Boda	" 🗸 "			"11:04"	"11:21"	"4"
Dr K P Santhosh	" 🖌 "			"10:55"	"12:46"	"98"
Dr Prasad E Nair Asst Prof Physics	" 🖌 "			"12:04"	"12:10"	"7"
Ganga R Nair	" 🗸 "			"12:17"	"12:46"	"30"
Gouri Panikkaveettil	" 🗸 "			"10:59"	"10:59"	"1"
Irene Joy Valiaveetil	" 🖌 "			"10:57"	"12:20"	"21"
Jyothish K	" 🗸 "			"12:17"	"12:19"	"3"
Kailas Swaminathan	" 🗸 "			"10:46"	"12:46"	"103"
Kailas Swaminathan	" 🖌 "			"10:46"	"10:46"	"1"
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Km Varier	" 🖌 "			"11:00"	"11:47"	"48"
Madduru Satya Babu	" 🖌 "			"11:09"	"11:09"	"1"
Manjunaath M K	" 🖌 "			"11:04"	"12:46"	"33"
Meghna C H	" 🖌 "			"10:45"	"10:54"	"3"
Nandana A B	" 🖌 "		1111	"12:17"	"12:46"	"30"
Nandhakishor Klsry	" 🖌 "		1111	"11:03"	"12:20"	"5"
Nimmy Sarah Alex	" 🖌 "			"11:04"	"12:45"	"31"
Nitheesh Praba	" 🖌 "			"11:04"	"11:06"	"3"
Parvathy M R	" 🖌 "		1111	"12:21"	"12:45"	"23"
Pavan Kumar	" 🖌 "			"12:17"	"12:46"	"30"
Pinky K	" 🖌 "		1111	"11:04"	"11:06"	"3"
Prasad Nair	" 🖌 "			"10:38"	"12:46"	"107"
Priyabrat Das	" 🖌 "			"12:17"	"12:35"	"19"
Rahul Murali	" 🗸 "			"11:19"	"12:46"	"31"

Rakesh S	" 🖌 "	 	"12:17"	"12:44"	"28"
Ravi Sankar Babu Balabhadrapatruni	" 🖌 "	 	"10:55"	"11:47"	"53"
Roshni Benny	" 🖌 "	 	"11:04"	"12:46"	"46"
Ruksana	" 🖌 "	 	"12:02"	"12:08"	"7"
Sabeel Pk	" 🖌 "	 	"10:55"	"12:46"	"36"
Sahala Abdulla	" 🖌 "	 	"10:58"	"12:32"	"37"
Sandeep K S	" 🖌 "	 	"11:00"	"11:06"	"4"
Sangeetha Ck	" 🖌 "	 	"10:59"	"12:46"	"49"
Shilna Kv	" 🖌 "	 	"11:03"	"12:46"	"17"
Shiva Prasad Nayak	" 🖌 "	 	"10:50"	"11:06"	"10"
Silpa Cs	" 🖌 "	 	"10:58"	"12:46"	"90"
Sreejith V S	" 🖌 "	 	"10:55"	"10:55"	"1"
Sreelakshmy T	" 🖌 "	 	"12:17"	"12:46"	"30"
Sruthi C	" 🖌 "	 	"10:59"	"12:28"	"72"
Subasa Cukerala	" 🖌 "	 	"10:41"	"12:46"	"66"
Subir Nath	" 🖌 "	 	"10:51"	"12:46"	"89"
Sudhansu Rayaguru	" 🖌 "	 	"10:58"	"12:36"	"34"
Swapna Nair	" 🖌 "	 	"10:54"	"11:07"	"14"
Vincent Mathew	" 🖌 "	 	"10:53"	"12:46"	"103"
Visakh A C	" 🖌 "	 	"12:17"	"12:45"	"29"
Yadukrishnan Yadu Pvr	" 🖌 "	 	"12:17"	"12:46"	"30"
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"1"	
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"1" "1" 00:58:53.459,00:58:56.459 KM Varier: Dr. Kailas, very nice presentation!

01:20:04.298,01:20:07.298 Prasad Nair: please leave your comments and feedback

01:20:16.479,01:20:19.479 Prasad Nair: students in particular

01:22:30.847,01:22:33.847 Ganga R Nair: The talk was really interesting, got to know some new perspectives. Thanks a lot for organising the webinar!

01:26:41.824,01:26:44.824 Sreelakshmy T: Presentation was so interesting and also was able to understand different interesting applications .Thanks

01:36:55.278,01:36:58.278 Nimmy Sarah Alex: Great talk that covered many aspects. The discussion session was also interesting.Thanks.

01:37:05.414,01:37:08.414 Anees K T: Thank you sir for the wonderful talk.

01:38:36.127,01:38:39.127 ARDRA SURENDRAN KP: Great presentation Sir. Thank you

01:41:10.041,01:41:13.041 SILPA CS: Thank u sir for great presentation and improvising our knowledge.

#### Day 2: 24-02-2021, Wednesday

Speaker: Prof. S. Kailas, Former Director, Physics Division, BARC & INSA Senior Scientist

Topic: Nuclear Science, technology and Society

Time: 11.00 AM to 1 PM

Dr Prasad welcomed the audience Dr. Swapna S Nair, Head, Department of Physics, CUK introduced the speaker.

Prof. Vincent Mathew chaired the session.

Dr S Kailas talked about the developments in Nuclear Science and its various applications in all fields of science. He emphasized that today's science is tomorrow's technology. He took the participants to various fields where technology from nuclear science is crucial. He also opined that the attitude of the common man towards nuclear science and nuclear technology must change. Nuclear power is one of the cleanest energy sources available and a positive approach is highly necessary to properly tap this possibility to use for the benefit of common man.

Prof Vincent Mathew moderated the interaction session and concluded the talk by proposing vote of thanks. More than 60 participants attended the webinar.

# National Science Day Celebration 2021 (NSDC 2021)



**Department of Physics Central University of Kerala** 



# **National Webinar Series**

Day-03(25.02.2021)

**Program Schedule** 

11:00 - 11:03 am

Introductory Remarks: Dr. E Prasad, Co-ordinator, NSDC- 2021

11:04 - 11:08 am

Welcome Speech Dr. Swapna S Nair, HoD, Dept. of Physics, CUK •

11:09 - 11:15 am

Speaker Introduction : Dr. Rhine Kumar, Assistant Professor, CUSAT

### 11:16 - 12:30 pm

Speaker

Dr. Charles Jose, Assistant Professor, CUSAT •

**Probing the Universe with Galaxies Topic:** 

## Chair of the Session : Dr. S C Sahoo

## Meet link : https://meet.google.com/xys-ncdg-tix

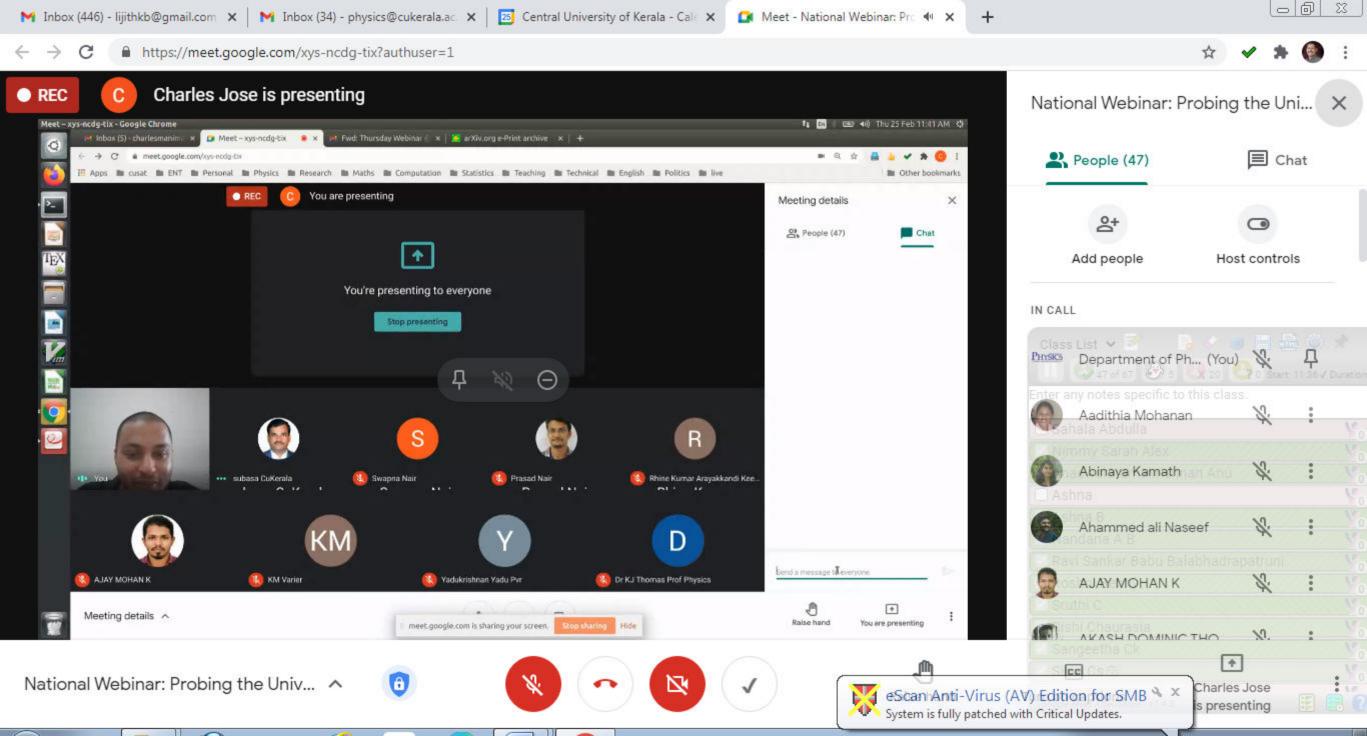


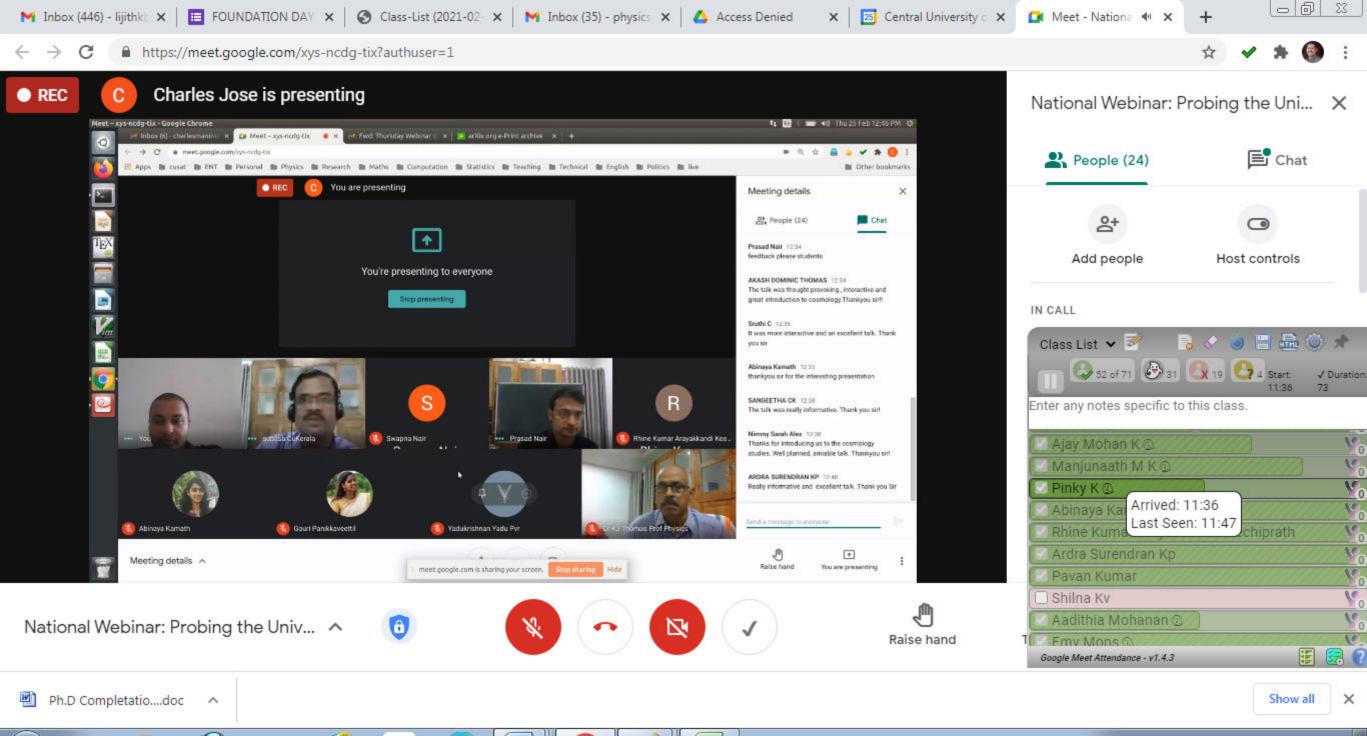
### **Coordinator:** Dr. E Prasad

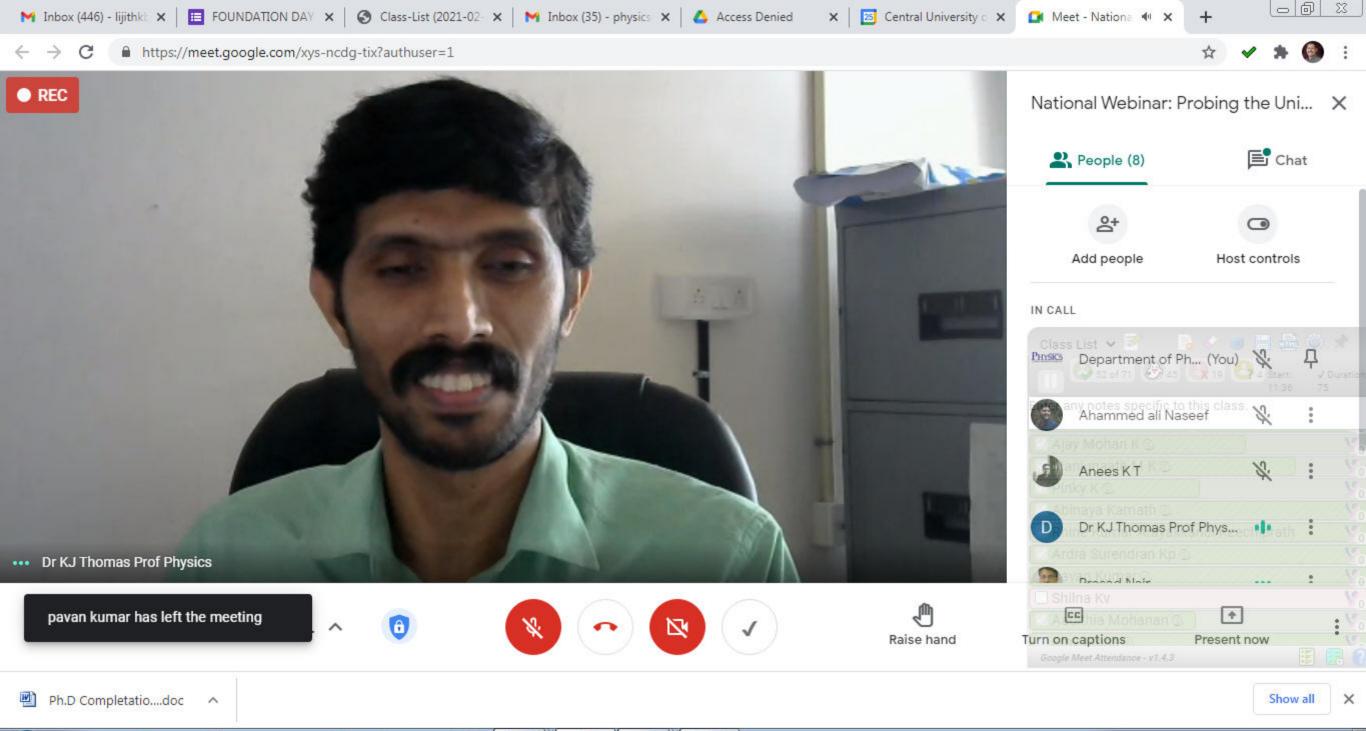
**Organizing Committee:** Dr. Swapna S Nair Dr. K J Thomas **Dr. Vincent Mathew** Dr. S C Sahoo Dr. P M Aneesh & **Research Scholars** 



**Dr. Charles Jose** 







DA4 - 3

Names ( 0 Absent)	10:50	10:55	11:00	11:05 11:05	
Sahala Abdulla Nimmy Sarah Alex Anaswararamakrishnan Anu Ashna					
Ashna B					
Ravi Sankar Babu Balabha Roshni Benny Sruthi C					
Sangeetha Ck					
Silpa Cs					
Silpa Cs Silpa Cs Aneeshpm Cukerala Subasa Cukerala Priyabrat Das					
Akhila Gopinath		1	1		
Meghna C H					
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Anju Joseph					_
Ajay Mohan K					
Pinky K					Non-
Abinaya Kamath					
Rhine Kumar Arayakkandi					
Ardra Surendran Kp					
Pavan Kumar					
Aadithia Mohanan					
Prasad Nair					
Prasad Nair					
Ahammed Ali Naseef					
Shiva Prasad Nayak Gouri Panikkaveettil					
Gouri Panikkaveettil					
Department Of Physics					*
Dr Kj Thomas Prof Physics		1			
Aswathi Pk					
Sabeel Pk					
Sabeel Pk					
Nitheesh Praba					
Yadukrishnan Yadu Pvr					
Parvathy M R Ruksana					
Rakesh S					
Sreejith V S					
Sreejith V S					-
Bhabani Sankar Sahoo					
Aadithya Suresh					
Amisha T					
Anees K T					
Anees K T					
Sreelakshmy T					EU
Akash Dominic Thomas Anaghamrutha P V					177
Km Varier					
i sin fundi					11

004.3

00:31:46.959,00:31:49.959 Yadukrishnan Yadu Pvr: No

00:31:58.731,00:32:01.731 amisha t: Random distribution

00:32:01.962,00:32:04.962 AJAY MOHAN K: Non homogeneous

00:32:20.628,00:32:23.628 Nimmy Sarah Alex: Non-uniform distribution

00:36:11.578,00:36:14.578 Yadukrishnan Yadu Pvr: Standard deviation?

00:36:12.682,00:36:15.682 Gouri Panikkaveettil: mean deviation

00:38:41.973,00:38:44.973 Sandeep K S: 0?

00:38:47.443,00:38:50.443 amisha t: 0

00:41:44.959,00:41:47.959 Nimmy Sarah Alex: yes

00:41:46.855,00:41:49.855 Sandeep K S: Yes

00:43:04.742,00:43:07.742 Gouri Panikkaveettil: chech

00:43:26.580,00:43:29.580 Gouri Panikkaveettil: check if std deviation is 0 or not

00:43:28.060,00:43:31.060 Sandeep K S: Taking standard deviations?

01:25:12.575,01:25:15.575 Prasad Nair: feedback please students

01:25:24.583,01:25:27.583 AKASH DOMINIC THOMAS: The talk was thought provoking , interactive and great introduction to cosmology.Thankyou sir!!

01:26:11.911,01:26:14.911 Sruthi C: It was more interactive and an excellent talk. Thank you sir

01:26:28.261,01:26:31.261 Abinaya Kamath: thankyou sir for the interesting presentation

01:28:46.218,01:28:49.218 SANGEETHA CK: The talk was really informative. Thank you sir!

01:29:26.237,01:29:29.237

Nimmy Sarah Alex: Thanks for introducing us to the cosmology studies. Well planned, amiable talk. Thankyou sir!

01:30:41.246,01:30:44.246 ARDRA SURENDRAN KP: Really informative and excellent talk .Thank you Sir

01:37:32.020,01:37:35.020 Gouri Panikkaveettil: It was a really great leacture explained everything in simple terms so could understand very well

#### Day 3: 25-02-2021, Thursday

Speaker: Dr Charles Jose, Assistant Professor, CUSAT, Cochin

Topic: probing the Universe with galaxies

Time: 11.00 AM to 1 PM

Dr Prasad welcomed the audience. Dr Rhine Kumar, Assistant Professor, CUSAT introduced the speaker

Dr. Subasa Chandra Sahoo chaired the session.

Dr Charles Jose introduced the topic well. He talked about the galaxies, observational aspects, expansion of galaxies and also detailed the information gained from "first light" – the cosmic microwave background radiation. The talk was very informative.

Dr Sahoo moderated the interaction session and concluded the talk by proposing vote of thanks. More than 60 participants attended the webinar.

# National Science Day Celebration 2021 (NSDC 2021)



**Department of Physics Central University of Kerala** 



**National Webinar Series** 

(26.02.2021)**Dav** 

**Program Schedule** 

11:00 - 11:03 am

Introductory Remarks: Dr. E Prasad, Co-ordinator, NSDC- 2021

11:04 - 11:08 am

Welcome Speech & : Dr. Swapna S Nair, HoD, Dept. of Physics, CUK

11:09 - 12:30 pm

Speaker

Dr. Manju Perumbil, Australian National University 

**Topic: Tunneling Dynamics of a Bose Einstein Condensate** 

## Chair of the Session : Dr. Aneesh P M

## Meet link :meet.google.com/gob-hidh-dus



### **Coordinator:** Dr. E Prasad

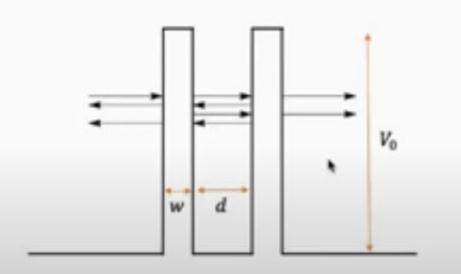
**Organizing Committee:** Dr. Swapna S Nair Dr. K J Thomas **Dr. Vincent Mathew** Dr. S C Sahoo Dr. P M Aneesh & **Research Scholars** 



## National Webinar: Tunneling Dynamics of a Bose Einstein Condensate (...

## **Atomic Fabry-Perot Interferometer**

- Light is replaced by atoms
- Mirrors are replaced by optical potentials



13:58 / 1:32:46

### Differences from optical system:

- Atomic mass
- Interaction between atoms (tunable)
- Optical potentials behave differently to ordinary mirrors (reflectivity is no longer a constant)

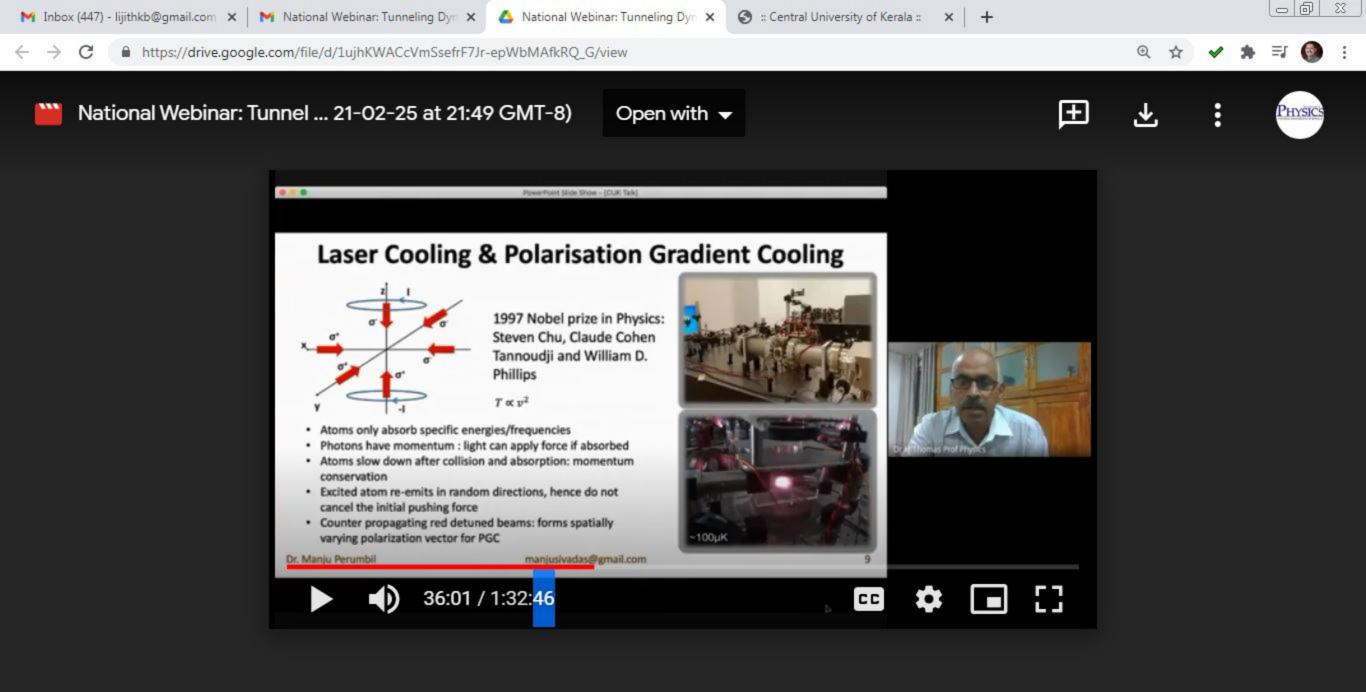


Dr. Manju Perumbil





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Day 4 (71)

#### Day 4: 26-02-2021, Friday

Speaker: Dr Manju Perumbil, Australian National University

Topic: Tunnelling dynamics of a Bose-Einstein condensate

Time: 11.00 AM to 1 PM

Dr Prasad welcomed the audience. Dr Swapna S Nair introduced the speaker to the participants.

Dr. Aneesh P M chaired the session.

Dr Manju Perumbil in this talk talked about the BE, Bose Einstein condensate, how it is realised in the laboratory and different applications of BEC in day to day life. She explained how significant is the tunnelling dynamics in Fabry Perot interferometer and explained the dynamics using single and double barriers. Also discussed about fisher information and the practical feasibility of the findings.

Dr Aneesh moderated the interaction session and concluded the talk by proposing vote of thanks. More than 60 participants attended the webinar.

Dr E Prasad made the concluding remarks.