

St. Stephen's College University of Delhi Delhi 110007 Phone: +91-11-27667200 E-mail: pstoprincipal@ststephens.edu Website: www.ststephens.edu

# Society Activity Report 2020-21 The Physics Society

## \* FLAGSHIP EVENTS OF PHYSICS SOCIETY (2020-21)

### 1) Ranjan Roy Memorial Lecture (2020-21)

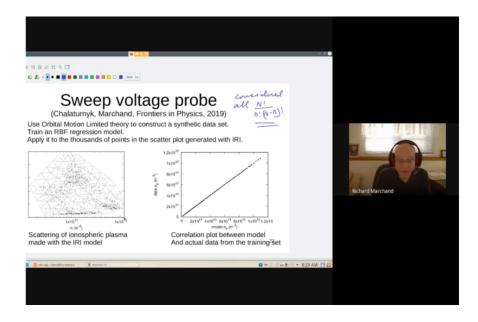
Title: Measuring the Vacuum in space. Speaker: Prof. Richard Marchand of University of Alberta Date and Time : 17 February,2021|| 6 P.M-7P.M





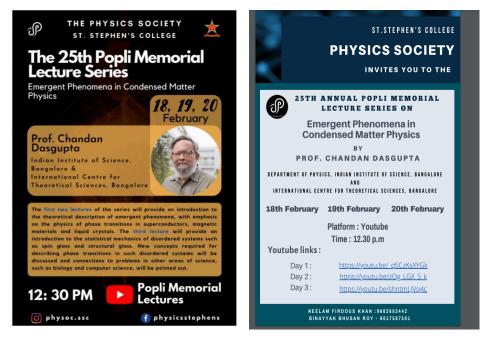
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#### 2) Popli Memorial Lecture Series( 2020-21)

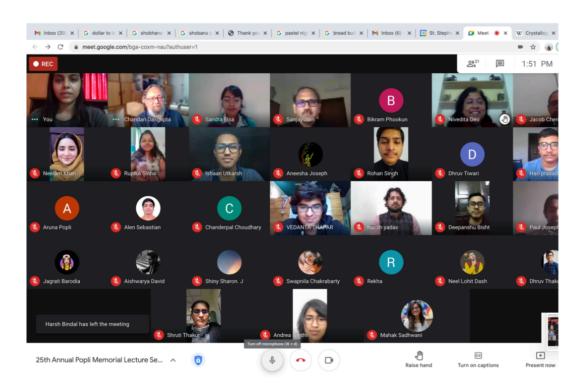
Title: Emergent Phenomena in Condensed Matter Physics. Speaker: Prof. Chandan Dasgupta, IISCTS Date : 18-20 February 2021





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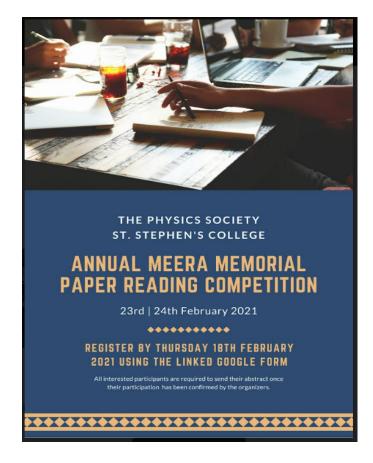
### 3). Meera Memorial Paper Reading Competition (2020-21)

Date: 23,24,25 February,2021 Participants: 23



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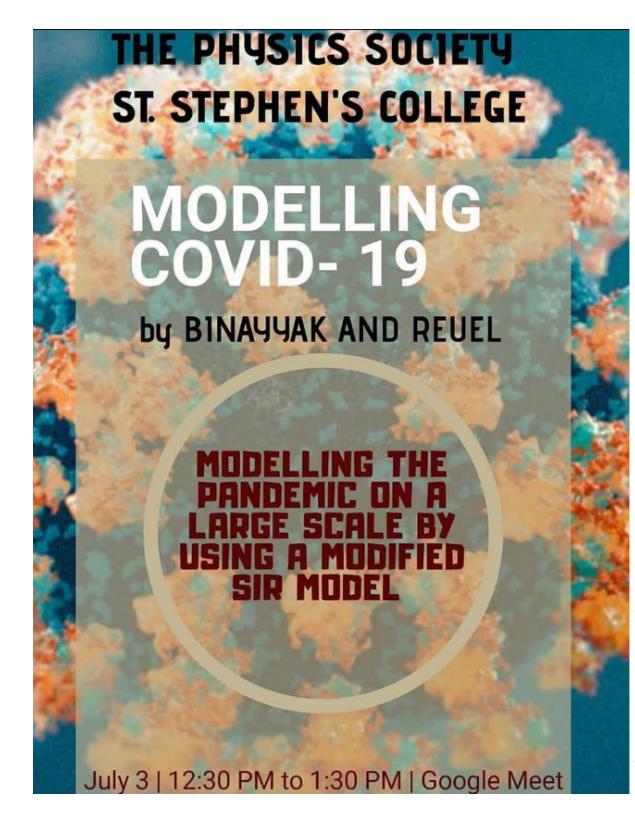
## Club sessions and talks under Physics Society

The Society consists of three clubs, namely, the Feynman Club, Astronomy Club and Problem Solving Club. Talks under the Feynman club (called Feynman Talks) are delivered by scholars and academics in the field of Physics. Sessions in Astronomy and Problem solving Club are conducted by the student members of the society.

Talk 1(Feynamn's Club)
 Title : Modelling Covid-19
 Speaker : Reuel Dsouza and Binayyak Bushan Roy
 Designation: Third Year Physics students
 Date : 3rd July 2020



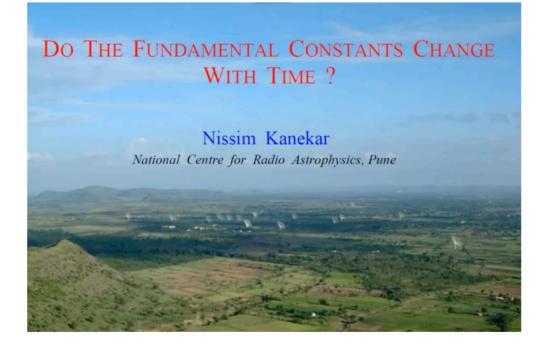
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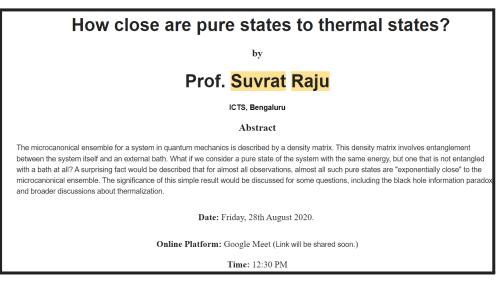
Talk 2 (Feynman's Club)
 Title : Do fundamental constants change with time?
 Speaker : Prof. Nissim Kanekar
 Designation: Professor and DST Swarnajayanti Fellow at the NCRA,
 TIFR, Pune, India.
 Date : 21st August 2020



Talk 3 (Feynman's Club)
Title : How close are pure states to thermal states?
Speaker : Prof. Suvrat Raju
Designation:Professor, ICTS, TIFR, Bengaluru, India.
Date : 28th August 2020



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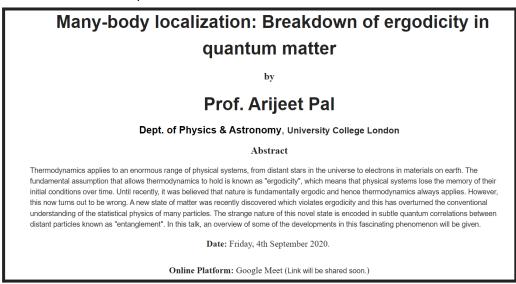


4. Talk 4 (Feynman's Club)

Title : Many-body localization: Breakdown of ergodicity in quantum matter Speaker : Prof.Arijeet Pal

Designation: Dept of Physics and Astronomy, University College,

London Date : 4th September 2019

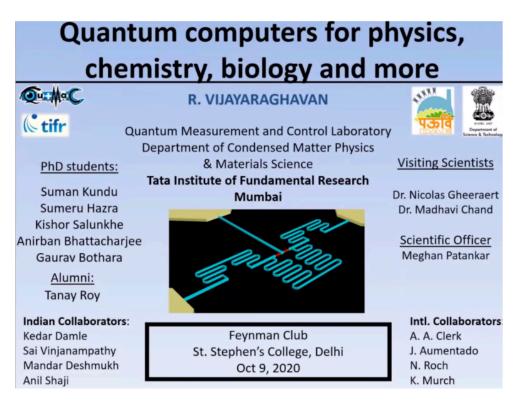


5. Talk 5 (Feynman's Club)

Title : Quantum Computers for Physics, Chemistry, Biology and more Speaker : Prof. R Vijayaraghavan Designation: Professor, TIFR. Date : 09th October 2020



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5th Feynman Lecture by Dr. Nissim Kanekar

6. Talk 6 (Feynman's Club)

Title : Fast, small - yet still in control: the mechanics of insect flight Speaker : Prof. Sanjay P Sane Designation: NCBS, TIFR, Bengaluru, India. Date : 06th November 2020



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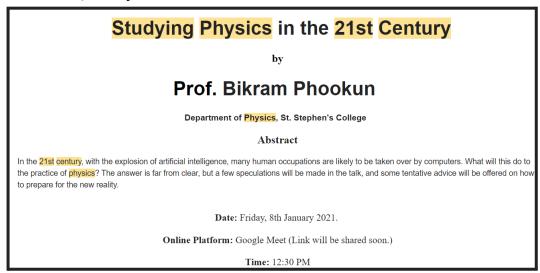


sane@ncbs.res.in

6th Feynman Lecture by Prof. Sanjay P Sane

7. Talk 7 (Feynman's Club)

Title : Studying Physics in the 21st Century Speaker : Prof. Bikram Phookun Designation: Professor, St.Stephen's College, Delhi. Date : 08th January 2021

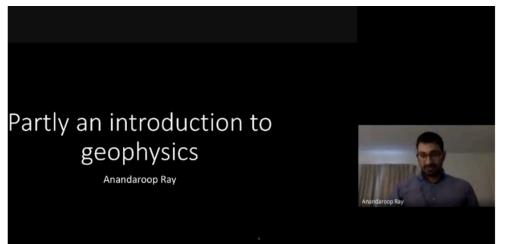


7. Talk 7 (Feynman's Club)



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Title : Partly an introduction to geophysics Speaker : Anandaroop Ray Designation: Senior Geophysicist at Geoscience Australia. Date : 12th March 2021





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## **\*** Other Sessions

DATE	EVENT	TOPIC	PRESENTER
07-08-2 020	Orientation	Introduction to the new verticals	Astronomy Club Ex- ecutive Council
22-08-2 020	Discussion	Introduction to Sky Viewing	Neel Lohit Dash
24-08-2 020	Discussion	Introduction to Computa- tional Astronomy and Data Analysis	Binayyak Bushan Roy & Neel Lohit Dash
21-08-2 020	Discussion	Introduction to Radio As- tronomy	Rahul Mallikarjun
09-09-2 020	Discussion	N-Body Problem	Binayyak Bushan Roy
11-09-2 020	Discussion: Stellar Dynamics Problem	Astronomy with Python: CSV Files	Neel Lohit Dash
12-09-2 020	Data Analysis Session	HR Diagram and Color Magnitude Graphs	Neel Lohit Dash
15-09-2 020	Data Analysis Session	Introduction for First Years	Neel Lohit Dash



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	Discussion:		
26-09-2 020	Stellar Dynamics Problem	Three-body problem	Aleena Sibi & Samuel John
03-10-2 020	Discussion: Stellar Dynamics Problem	Sable orbits	Aleena Sibi & Samuel John
05-10-2 020	Discussion	N-Body Problem	Binayyak Bushan Roy
19-10-2 020	Discussion	N-Body Problem	Binayyak Bushan Roy
11-10-2 020	Data Analysis Session	Doubt Session	Aleena Sibi &Samuel John
17-01-2 021	Radio Astronomy	Simulating a Radio An- tenna	Rahul Mallikarjun & Neel Lohit Dash
24-01-2 021	Sky Viewing	Introduction to Sky Viewing	Chaitamya Varma
30-01-2 021	Data Analysis Session	HR Diagram, Stellar Classifications, Colour Magnitude Diagram, CSV files,Wien's Law and Black-body Radia- tion,	Neel Lohit Dash
		Spectral Types, FITS files	
05-02-2 021	Stellar Dynamics	Introduction for First Years	SY Stellar Dynamic- smembers
19-02-2 021	Stellar Dynamics	Precession of the Perihe- lion of Mercury	Neel Lohit Dash
21-02-2 022	Stellar Dynamics	Basic session	SY Stellar Dynamics members
28-02-2 021	Stellar Dynamics	Non-dimensionalising	Sandra Elsa Sanjai
05-03-2 021	Collaboration with JRG	Type 1A Supernova as a Cosmological Probe	Binayyak Bushan Roy & Neel Lohit Dash



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# Supporting Document proofs for above sessions





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