

## PROGRAM:

Venue: Block A SGT University, Plenary session: Room no 318

CCSP: Block E SGT University

# SCHEDULE

## DAY 1:

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09.20am -10.00 am: Inauguration

Chair: **Lakhwinder Singh**, Dean, Faculty of Science, SGT

Inaugural address by: **Vice Chancellor**, SGT

**T.P. Singh**, TIFR, India ([Online](#))

**Valerio Faraoni**, Bishop's University, Canada([Online](#))

**Director**, CCSP, SGT

**Provost**, SGT

**N. Dadhich**, IUCAA, Pune (Keynote)

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10.00 am-10.30 am: Breakfast

10.30 am-11.40 am: Plenary Session I

Chair: **S. Panda**, Director, NISER

Talk 1: Title: *Signatures of non-trivial inflationary and post-inflationary dynamics on small scales* Speaker: **L. Sriramkumar**, IIT Madras

Talk 2: Title: *Primordial black holes from single field inflation and their observational imprints* Speaker: **R. Jain**, IISc Bengaluru

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11.40am -11.50am: Tea/Coffee Break

11.50 am -1.00 pm: Plenary Session II

Chair: **T.R. Seshadri**, Delhi University

Talk 1: Title: *Interacting Dark Energy and Dark Matter with Energy and Momentum Transfers* Speaker **S. Tsujikawa**, Waseda University, Japan ([Online](#))

Talk 2: Title: *Cosmological Tensions: Searching for New Physics using new Degrees of Freedom in the Analysis of Cosmological Data.*

Speaker: **L. Perivolaropoulos**, University of Ioannina, Greece ([Online](#))

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01.00pm - 02.00pm: Lunch Break

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02.00pm-3.15pm: Parallel Session:

Classical Gravity I (CGI) Chair: **S. Shankaranarayanan**, IIT Bombay

Primordial Cosmology I (PCI) Chair: **R. Jain**, IISc, Bengaluru

Aspects of Modern Cosmology I (Online) Chair: **S. Sadhukhan**, RMRC, Kolkata

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03.15pm-3.30pm: Tea/Coffee Break

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03.30pm-4.45pm: Parallel Session:

Quantum Gravity I (QG I) Chair: **Md. Wali Hossain**, Jamia Millia Islamia

Dark Matter and Dark Energy I (DMDE I) Chair: **C.P. Singh**, DTU

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## DAY 2:

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09.10 am-09.40 am: Breakfast

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09.40 am-11.25 am: Plenary Session III

Chair: **S. G. Ghosh**, CTP, Jamia Millia Islamia

Talk 1: Title: *Quantum Cosmology: Recent Developments*

Speaker: **S. Chakraborty**, IACS, Kolkata

Talk 2: Title: *Constraining modified gravity theories from ring-down energetics*

Speaker: **S. Shankaranarayanan**, IIT Bombay

Talk 3: Title: *Cosmographic reconstruction to discriminate between modified gravity and dark energy* Speaker: **S. Capozziello**, University of Napoli, Italy ([Online](#))

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11.25 am -11.40am: Tea/Coffee Break

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11.40 am -12.50 pm: **Plenary Session IV**  
Chair: **D. Lohia**, Delhi University

Talk 1: Title: *Can the mass function of collapsed halos be described in a universal form?* Speaker: **J. S. Bagla**, IISER Mohali ([Online](#))

Talk 2: Title: *Primordial Magnetic fields* Speaker: **Kandaswamy S.**, IUCAA ([Online](#))

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01.10pm -02.00pm: Lunch Break

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02.00pm-3.15pm: **Parallel Session**

Classical Gravity II (CGII): Chair: **H. Nandan**

Primordial Cosmology II (PCII) Chair: **A. Deshamukhya**, Assam University

Aspects of Modern Cosmology II ([Online](#)) Chair: **M. A. Thomas**, IISER TVM

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03.15pm-3.30pm: Tea/Coffee Break

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03.30pm-4.45pm: **Parallel Session**

Quantum Gravity 2 (QG2) Chair: **S. Singh**, IIT Delhi

Dark Matter and Dark Energy 2 (DMDE2) Chair: **M. Kumar**, SGTU

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06.30pm- 9.00pm : Conference Dinner and Night sky watch

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## DAY 3:

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09.20 am-09.40 am: Breakfast

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09.40 am-10.40 am: Chair: **S. Panda**, Director, NISER

*Foundation Day Lecture:*  
**Meghnad Saha Memorial Lecture by Prof. R. Ramaswamy**

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10.40am -11.00am: Tea/Coffee Break

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11.00 am -1.10 pm: **Plenary Session V**  
Chair: *R. Wadhwa*, SGT University

**Talk 1:** Title: *Constructing Physical Science and the Importance of Empirical Rigor: A Case Study in Relativity.*

Speaker: **C. S. Unnikrishnan**, TIFR, Mumbai ([Online](#))

**Talk 2:** Title: *To be announced*

Speaker: **A. Paranjape**, Nehru Planetarium, Mumbai ([Online](#))

**Talk 3:** Title: *Sky: Our Oldest Lab* Speaker: **S. Singh**, IIT Delhi

**Talk 4:** Title: *Don't store your data – communicate it* Speaker: **M. Safonova**, IIA, Bangalore

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01.10pm -01.30pm: Closing Address by **Rajive Gulati**, SGT University  
**Pro Chancellor, SGT University**  
**S. G. Ghosh**, CTP, Jamia Millia Islamia

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### **Day 3: Science Popularization activities for the students:**

High school students from the nearby schools will attend the conference on Day 3. The **Taramandal program** will start from 2pm and continue until 4 pm. All participants are welcome to attend.

