

# INDIAN ACADEMY OF SCIENCES

Bengaluru 560 080

Twenty-seventh Mid-Year Meeting  
1-2 July 2016

## PROGRAMME

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**1 July 2016 (Friday)**

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**Venue: Faculty Hall, Indian Institute of Science, Bengaluru**

**0930–1010 Session 1A – Special Lecture**

**Dipankar Bhattacharya**, IUCAA, Pune  
*The astrosat mission*

**1010–1300 Session 1B – Lectures by Fellows/Associates**

1010-1030 **P B Sunil Kumar**, IIT, Chennai  
*Mechanisms governing shape changes in biological membranes*

1035-1055 **T Punniyamurthy**, IIT, Guwahati  
*Carbon-carbon and carbon-heteroatom bonds formation and their application for medicinally significant heterocycles*

**1100–1120 Tea break**

1120-1140 **K.N. Uma**, VSSC, Thiruvananthapuram  
*Tropical mesoscale convective systems and its associated dynamics*

1145-1205 **Suman Chakraborty**, IIT, Kharagpur  
*Liquid water may stick on hydrophobic surfaces*

1210-1230 **Mahak Sharma**, IISER, Mohali  
*Molecular mechanisms regulating endosome- lysosome tethering and fusion*

1235-1255 **Shantanu Chowdhury**, IGIB, Delhi  
*Knotty DNA: Another dimension to gene regulation*

**1300–1415 Lunch break**

**1415–1500 Session 1C – Lectures by Fellows/Associates**

1415-1435 **Debashish Goswami**, ISI, Kolkata  
*Quantum group symmetry of classical and noncommutative geometry*

1440-1500 **Kanishka Biswas**, JNCASR, Bengaluru  
*Origin of ultra-low thermal conductivity in complex chalcogenides: Effect of lone pair, anharmonic rattling and bonding asymmetry*

**1505-1520 Tea break**

**1520–1730 Session 1D – Symposium on ‘Gravitational Waves’**

1520-1530 **Tarun Souradeep**, IUCAA, Pune  
*Introduction*

1530-1550 **Bala Iyer**, ICTS, Bengaluru  
*From prediction to detection: Highlights of the fascinating history of gravitational waves*

- 1555-1615 **Sukanta Bose**, IUCAA, Pune  
*In the era of gravitational wave astronomy*
- 1620-1640 **Sendhil Raja**, RRCAT, Indore  
*Interferometric gravitational wave detectors: Technological challenges*
- 1645-1705 **P. Ajith**, ICTS, Bengaluru  
*Testing general relativity using gravitational-wave observations*
- 1710-1730 **Varun Bhalerao**, IUCAA, Pune  
*Multi-messenger astronomy with gravitational waves*

**1730-1800 High Tea**

**1800–1900 Session 1E – Public Lecture**

**Pratap Bhanu Mehta**, Centre for Policy Research, New Delhi  
*Two ideas of India*

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## 2 July 2016 (Saturday)

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**0900–0940 Session 2A – Special Lecture**

**K N Ganेशaiah**, Bengaluru  
*Feeling the ‘Pulses’ for protein revolution*

**0940–1240 Session 2B – Lectures by Fellows/Associates**

0940-1000 **Amalendu Krishna**, TIFR, Mumbai  
*Algebraic K-theory and algebraic cycles*

1005-1025 **Saman Habib**, CDRI, Lucknow  
*A relict organelle that changed the way we thought of malaria*

1030-1050 **R. Prabhu**, IIT, Patna  
*A glimpse into quantum information science*

**1055–1120 Tea break**

**1120–1300 Session 2C – Lectures by Fellows/Associates**

1120-1140 **Subhra Chakraborty**, NIPGR, New Delhi  
*Understanding biomolecular networks modulating nutrient response and immunity in plant*

1145-1205 **Sunil K Singh**, PRL, Ahmedabad  
*Biogeochemistry of trace elements and isotopes in the Indian Ocean*

1210-1230 **K V Venkatesh**, IIT, Mumbai  
*Systems engineering perspective of human metabolism: A multi-scale model for disease analysis*

1235-1255 **D S Pandey**, BHU, Varanasi  
*Aggregation induced emission: Optical and morphological insights*

**1300–1400 Lunch break**

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