

[ATSOA 2023 - Programme Schedule](#)

Week 1

April 17, 2023 (Monday) - Basics of Astronomy

Session	Session Chair	Time	Speaker	Title
Welcome		9:00	Registration	
Basic Astronomy	Kuntal Misra	9:30 - 9:40	Welcome Address by the Director	
		9:40 - 9:50	Kuntal Misra	An Overview of ATSOA 2023
		9:50 - 10:30	Indranil Chattopadhyay	What is Astronomy: A Brief History
		10:30 - 11:30	Brijesh Kumar	An Overview of Optical Astronomy
Tea Break (11:30 - 12:00)				
Basic Astronomy	Amit K. Ror	12:00 - 13:00	Suwendu Rakshit	Astronomical Co-ordinate Systems
Lunch Break (13:00 - 14:00)				
Demo Session		14:00 - 15:30	Krishnan Chand	Tools of Optical Astronomy - Photometry
Tea/Coffee Break (15:30 - 16:00)				
Project Discussion		16:00 - 17:30	Krishnan Chand	Discussion with Project Guides
Tea/Coffee Break (17:30 - 18:30)				
Visit		18:00 - 19:30	Arvind Dattatrey/ Bhavya/Amit K. Ror/ Shubham Kishore	Visit to 40 inch Sampurnanand Telescope

April 18, 2023 (Tuesday) - Astronomical Telescopes and Simulations

Session	Session Chair	Time	Speaker	Title
Optical Astronomy	Arvind Dattatrey	9:30 - 10:30	Brijesh Kumar	An Overview of Optical Telescopes
		10:30 - 11:30	Brajesh Kumar	The 4m International Liquid Mirror Telescope (ILMT)
Tea/Coffee Break (11:30 - 12:00)				

Demo session	12:00 - 13:00	Raj Kishore Joshi	Tools of Hydrodynamic Simulations
Lunch Break (13:00 - 14:00)			
Project Guides	14:00 - 15:30	Data Analysis - I	
Tea/Coffee Break (15:00 - 15:30)			
Project Guides	15:30 - 17:00	Data Analysis - II	

April 19, 2022 (Wednesday) - Stellar Systems

Session	Session Chair	Time	Speaker	Title
Stellar Systems	Dibya Kirti Mishra	9:30 - 10:30	Neelam Panwar	Stellar Structure and Evolution
		10:30 - 11:30	Saurabh	Star Formation
Tea/Coffee Break (11:30 - 12:00)				
Stellar Systems	Tushar Tripathi	12:00 - 13:00	Kshitiz Kumar Mallick	Multi-wavelength View of Star Formation
Lunch Break (13:00 - 14:00)				
Optical Astronomy	Naveen Dukiya	14:00 - 15:30	Shivangi Pandey	Tools of Optical Astronomy - Spectroscopy I
Tea/Coffee Break (15:30 - 16:00)				
Demo Session		16:00 - 17:30	Shivangi Pandey/Naveen Dukiya	Tools of Optical Astronomy - Spectroscopy II
<i>Cultural Evening (18:30 onwards in the Auditorium)</i>				

April 20, 2023 (Thursday) - Stellar Systems

Session	Session Chair	Time	Speaker	Title
Stellar Systems	Aayushi Verma	9:30 - 10:30	Ramakant Singh Yadav	Stellar Motions
		10:30 - 11:30	Santosh Joshi	An Introduction to Asteroseismology
Tea/Coffee Break (11:30 - 12:00)				
Stellar Systems	Nitin Vashistha	12:00 - 13:00	Deepak	Formation and Evolution Histories of the Milky Way
Lunch Break (13:00 - 14:00)				
Project Guides		14:00 - 15:30	Data Analysis - I	
Tea/Coffee Break (15:30 - 16:00)				
Project Guides		16:00 - 17:30	Data Analysis - II	

April 21, 2023 (Friday) - High Energy Astrophysics

Session	Session Chair	Time	Speaker	Title
High Energy Astrophysics	Bhavya	9:30 - 10:30	Kuntal Misra	Cosmic Explosions - Final Stages of Stars
		10:30 - 11:30	Abhijit Roy	A Brief Introduction of Cosmic Ray
Tea/Coffee Break (11:30 - 12:00)				
High Energy Astrophysics	Devanand Ullas	12:00 - 13:00	Haritma Gaur	An Introduction to Active Galactic Nuclei (AGN)
Lunch Break (13:00 - 14:00)				
Project Guides		14:00 - 15:30	Data Analysis - I	
Tea/Coffee Break (15:30 - 16:00)				
Project Guides		16:00 - 17:30	Data Analysis - II	

April 22, 2022 (Saturday) - Visit and Data Analysis

Session	Time	Speaker	Title
Visit	9:00 - 11:30	Jyoti Sheoran/ Arpit Shrivastav/ Upasna Baweja/ Dibya Kirti Mishra	Visit to Solar Tower Telescope
Tea/Coffee Break (11:30 - 12:00)			
Project Guides		12:00 - 13:00	Data Analysis - I
Lunch Break (13:00 - 14:00)			
Free Afternoon			

April 23, 2023 (Sunday) - Trip to ARIES Devasthal Observatory

Day Trip to ARIES Devasthal Observatory
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Week 2

April 24, 2023 (Monday) - Exoplanets and Theoretical Astrophysics

Session	Session Chair	Time	Speaker	Title
Exoplanets/ Theoretical Astrophysics	Arvind Dattatrey	9:30 - 10:30	Yogesh Joshi	Basics of Exoplanetary Detections and Recent Advancement in the Field
		10:30 - 11:30	Indranil Chattopadhyay	Theoretical Astrophysics - I
Tea/Coffee Break (11:30 - 12:00)				
Theoretical Astrophysics	Nitin Vashishtha	12:00 - 13:00	Indranil Chattopadhyay	Theoretical Astrophysics - II
Lunch Break (13:00 - 14:00)				
Project Guides		14:00 - 15:30	Data Analysis - I	
Tea/Coffee Break (15:30 - 16:00)				
Project Guides		16:00 - 17:30	Data Analysis - II	

April 25, 2023 (Tuesday) - Solar Physics

Session	Session Chair	Time	Speaker	Title
Solar Physics	Jyoti Sheoran	9:30 - 10:30	Vaibhav Pant	An Introduction to the Sun and Space Weather
		10:30 - 11:30	Dipankar Banerjee	<i>Aditya</i> -L1: First Indian Mission to Study the Sun
Tea/Coffee Break (11:30 - 12:00)				
Solar Physics	Dibya Kirti Mishra	12:00 - 13:00	Satbadwa Majumdar	Magnetic Storms at the Sun: Why do we care?
Lunch Break (13:00 - 14:00)				
Project Guides		14:00 - 15:30	Data Analysis - I	
Tea/Coffee Break (15:30 - 16:00)				
Project Guides		16:00 - 17:30	Data Analysis - II	
Director's Dinner (19:00 onwards)				

April 26, 2023 (Wednesday) - Atmospheric Science

(The forenoon session on this day will be held in the ST Radar building.)

Session	Session Chair	Time	Speaker	Title
Atmospheric Science	Rahul Sheoran	9:30 - 10:10	Narendra Singh	An Introduction to Atmospheric Physics
		10:10 - 10:50	Umesh C. Dumka	Aerosols in our Atmosphere
		10:50 - 11:30	Manish Naja	Air Pollution and Climate Change Studies
Tea/Coffee Break (11:30 - 12:00)				
Visit		12:00 - 13:15	Mahendar Rajwar/Rahul Sheoran/Vikrant Tomar	Balloon launch and ST Radar visit
Lunch Break (13:15 - 14:00)				
Project Guides		14:00 - 15:30	Data Analysis - I	
Tea/Coffee Break (15:30 - 16:00)				
Project Guides		16:00 - 17:30	Data Analysis - II	

April 27, 2023 (Thursday) - Multi-wavelength Astronomy and Astronomy Education

Session	Session Chair	Time	Speaker	Title
Multi-wavelength Astronomy	Shubham Kishore	9:30 - 10:30	Krishna Mohana	Basics of Gamma-ray Astronomy
		10:30 - 11:30	Jeewan C. Pandey	Basics of X-ray Astronomy
Tea/Coffee Break (11:30 - 12:00)				
Multi-wavelength Astronomy	Gurpreet Singh	12:00 - 13:00	Ankur Ghosh	Basics of Radio Astronomy
Lunch Break (13:00 - 14:00)				
Public Outreach	Arpan Ghosh	14:00 - 15:30	Virendra Yadav	Talking Astronomy to the General Public
Tea/Coffee Break (15:30 - 16:00)				
Public Outreach	Arpan Ghosh	16:00 - 17:30	Gaurav Chaturvedi	From Backyard to Beyond: Modern Astrophotography techniques from Backyards to Remote Observatories

April 28, 2023 (Friday) - Final Day

Session	Session Chair	Time	Speaker	Title
Project Presentation	Deepak/ Abhijit Roy	9:30 - 11:30	Project Groups	
Tea/Coffee Break (11:30 - 12:00)				
Concluding Session	Arpan Ghosh/ Satabdwa Majumdar	12:00 - 13:00	Interaction with RSs and PDFs/Concluding Remarks/Feedback	
Lunch (13:00 - 14:00)				