

ATSOA 2022 - Programme Schedule

Week 1

May 16, 2022 (Monday) - Basics of Astronomy

Session	Session Chair	Time	Speaker	Title
Welcome		9:00	Registration	
Optical Astronomy	Kuntal Misra	9:30 - 9:40	Welcome Address by the Director	
		9:40 - 9:50	Kuntal Misra	An Overview of ATSOA 2022
		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)				
Optical Astronomy	Jayanand Maurya	12:00 - 13:00	Brijesh Kumar	An Overview of Optical Telescopes
Lunch Break (13:00 - 14:00)				
Radio Astronomy	Tushar Tripathi	14:00 - 15:30	Amitesh Omar	Basics of Radio Astronomy
Tea/Coffee Break (15:30 - 16:00)				
Astronomy using Archival Data		16:00 - 17:30	Amitesh Omar	Citizen Science Camp
Tea/Coffee Break (17:30 - 18:30)				
Visit		18:30 -20:00	Jayanand Maurya/ Rakesh Pandey	Visit to 40 inch Sampurnanand Telescope

May 17, 2022 (Tuesday) - Stellar Systems

Session	Session Chair	Time	Speaker	Title
Stellar Systems	Gurpreet Singh	9:30 - 10:30	Brijesh Kumar	Astronomical Co-ordinate Systems
		10:30 - 11:30	Neelam Panwar	Stellar Structure and Evolution
Tea/Coffee Break (11:30 - 12:00)				
Stellar Systems	Bhavya	12:00 - 13:00	Ramakant Yadav	Stellar Motions
Lunch Break (13:00 - 14:00)				

Demo Session	13:45 - 15:15	Dimple/Vivek K. Jha	Tools of Optical Astronomy
Tea/Coffee Break (15:00 - 15:30)			
ARIES Tuesday Seminar	15:30 - 17:00	Prof. Durgesh Tripathi	It's hot, it's magnetic and it's dynamic and it matters: the solar atmosphere and solar wind

May 18, 2022 (Wednesday) - Atmospheric Science

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

Session	Session Chair	Time	Speaker	Title
Atmospheric Science	Rahul Sheoran	9:30 - 10:30	Narendra Singh	An Introduction to Atmospheric Physics
		10:30 - 11:30	Manish Naja	Air Pollution and Climate Change Studies
Tea/Coffee Break (11:30 - 12:00)				
Visit		12:00 - 13:15	Manish Naja/ Virendra Yadav/ Mahendar Rajwar/ Akansha Rajput/Rahul Sheoran	Balloon launch and ST Radar visit
Lunch Break (13:15 - 14:00)				
Demo Session		14:00 - 15:30	Amitesh Omar	Citizen Science Camp
Tea/Coffee Break (15:30 - 16:00)				
Demo Session		16:00 - 17:30	Amitesh Omar	Citizen Science Camp

May 19, 2022 (Thursday) - Stellar Systems

Session	Session Chair	Time	Speaker	Title
Stellar Systems	Nikita Rawat	9:30 - 10:30	Saurabh	Star Formation
		10:30 - 11:30	Sneh Lata	Stellar Variability
Tea/Coffee Break (11:30 - 12:00)				
Stellar Systems	Dimple	12:00 - 13:00	Kuntal Misra	Cosmic Explosions - Final Stages of Stars
Lunch Break (13:00 - 14:00)				
Astronomical Spectroscopy	Bhavya	14:00 - 15:00	Amitesh Omar	An Introduction to Astronomical Spectroscopy

Tea/Coffee Break (15:30 - 16:00)			
Demo Session	16:00 - 17:30	Amit Kumar	Tools of Optical Spectroscopy

May 20, 2022 (Friday) - Theoretical Astrophysics and Public Outreach

Session	Session Chair	Time	Speaker	Title
Theoretical Astrophysics	Raj Kishor Joshi	9:30 - 10:30	Indranil Chattopadhyay	Theoretical Astrophysics
		10:30 - 11:30	Jagdish C. Joshi	Cosmic rays - Astroparticle physics
Tea/Coffee Break (11:30 - 12:00)				
Public Outreach	Tushar Tripathi	12:00 - 13:00	Vivek K. Jha	Cosmic Varta
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)				

May 21, 2022 (Saturday) - Data Analysis

Session	Time	Speaker	Title
Project Guides	9:30 - 11:30	Data Analysis - I	
Tea/Coffee Break (11:30 - 12:00)			
Project Guides	12:00 - 13:00	Data Analysis - II	
Lunch Break (13:00 - 14:00)			
Free Afternoon			

May 22, 2022 (Sunday) - Trip to ARIES Devasthal Observatory

Day Trip to ARIES Devasthal Observatory
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Week 2

May 23, 2022 (Monday) - Solar Physics

Session	Session Chair	Time	Speaker	Title
Solar Physics	Nitin Vashistha	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	Rahul Sheoran	12:00 - 13:00	Anjali Kaithakkal	A Glimpse into the World of Sun through Spectropolarimetry
Lunch Break (13:00 - 14:00)				
Demo Session		14:00 - 15:30	Nitin Vashistha/ Raj Kishor Joshi	Tools of Hydrodynamic Simulations
Tea/Coffee Break (15:30 - 16:00)				
Project Guides		16:00 - 17:30	Data Analysis - I	

May 24, 2022 (Tuesday) - Stars, Exoplanets and Extra-Galactic Astronomy

Session	Session Chair	Time	Speaker	Title
Stars/Exoplanets	Jayanand Maurya	9:30 - 10:30	Avrajit Bandyopadhyay	Chemical Composition of Stars
		10:30 - 11:30	Yogesh Joshi	Basics of Exoplanetary Detections and Recent Advancement in the Field
Tea/Coffee Break (11:30 - 12:00)				
AGN	Tushar Tripathi	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	
Cultural Evening (18:30 onwards in the Auditorium)				

May 25, 2022 (Wednesday) - Multi-wavelength Astronomy and Atmospheric Science

Session	Session Chair	Time	Speaker	Title
Multi-wavelength Astronomy	Nikita Rawat	9:30 - 10:30	Varun	Basics of X-ray Astronomy
		10:30 - 11:30	Jeewan C. Pandey	<i>AstroSat</i> - India’s first multi-wavelength space observatory
Tea/Coffee Break (11:30 - 12:00)				
Atmospheric Science	Rahul Sheoran	12:00 - 13:00	Umesh C. Dumka	Aerosols in our Atmosphere
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	

May 26, 2022 (Thursday) - Future Facilities & Public Outreach

Session	Session Chair	Time	Speaker	Title
Future Facilities	Shubham Kishore	9:30 - 10:30	Brajesh Kumar	The 4.0m International Liquid Mirror Telescope (ILMT)
		10:30 - 11:30	Shashi Bhushan Pandey	An Overview of Thirty Meter Telescope (TMT) Project
Tea/Coffee Break (11:30 - 12:00)				
Public Outreach	Tushar Tripathi	12:00 - 13:00	Virendra Yadav	Talking Astronomy to the General Public
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	

May 27, 2022 (Friday) - Final Day

Session	Session Chair	Time	Speaker	Title
Project Presentation	Varun/ Avrajit Bandyopadhyay	9:30 - 11:30	Project Groups	
Tea/Coffee Break (11:30 - 12:00)				
Concluding Session	Anjali Kaithakkal	12:00 - 13:00	Interaction with RSs and PDFs/Concluding Remarks/Feedback	
Lunch (13:00 - 14:00)				