

Workshop: Compact Objects in the AstroSat era: Theory, Observation, and Modelling		
Registration (9.00 - 9.30)		
Session 1 (9.30 - 11.00) Chair: Parag Shah		
9.30 - 9.40	Welcome + Logistics	Sudip Bhattacharyya
9.40 - 10.15	An overview of the Indian multiwavelength space mission, AstroSat	Sudip Bhattacharyya
10.15 - 11.00	Einstein's theory, gravitational collapse, and the formation of compact objects	Pankaj Joshi
Tea Break (11.00 - 11.30)		
Session 2 (11.30 - 13.00) Chair: Vishva Patel		
11.30 - 11.50	Introduction to different types of singularities and their observational aspects	Jay Verma Trivedi
11.50 - 12.10	Spectral Signatures of Black Hole Systems	Sayantan Bhattacharya
12.10 - 12.35	Spectral-Timing Properties of Neutron Stars & Pulsars	Aman Kaushik
12.35 - 13.00	At the Edge of Gravity: Exploring Shadows, Accretion Disks, and Tidal Disruption Events	Ashok Joshi
Lunch Break (13.00 - 14.00)		
Session 3 (14.00 - 15.30) Chair: Ashok Joshi		
14.00 - 14.20	Overview of AstroSat Instruments & Data Products	Sandeep Vishwakarma
14.20 - 14.40	Introduction to HEASoft & XSPEC	Vishva Patel
14.40 - 15.00	Data, Visualising Spectra & Basic Models	Aman Kaushik
15.00 - 15.30	Hands-On Spectral Fitting	Tilak Katoch
Tea Break (15.30 - 16.00)		
Session 4 (16.00 - 17.30) Chair: Tilak Katoch		
16.00 - 17.00	Advanced Spectral Modelling (Lines, Reflection, Joint Fits)	Sayantan Bhattacharya
17.00 - 17.15	Physical Interpretation & Caveats	Sayantan Bhattacharyya
17.15 - 17.30	Discussion, Future Facilities & Closing Remarks	Sudip Bhattacharyya