PRJ 501 Presentations (Astronomy & Gravitation)

Dec.1, 2026 AB1 Conference Room

Time	Name	Title	Mentor(s)
9:30	Nirjhar Bhattacharya	Analysing Entanglement Divergence in a Coupled Healthy-Ghost Oscillator system	S Shankaranarayanan & Kinjlak Lochan
10:00	Pranjal Tiwari	Representation in de Sitter	Arnab Priya Saha & Kinjalk Lochan
10:30	Pranav Santosh Rewanwar	Evolution of Quantum Field Correlators in Post-Inflationary Cosmology	Kinjalk Lochan
11:00	Tea / Coffee Break		
11:30	Aryan	Study of falloff conditions for gravitational perturbation	Kinjalk Lochan
12:00	Vanshika Dhiman	Spectral and Temporal Properties of Be/X-ray Binary EXO2030+375	Sudip Bhattacharya & Pankaj Kushwaha
12:30	Rritobak Dutta	Modelling the effect of the Circumgalactic medium on galactic outflows and metal enrichment of the Intergalactic medium	Biman Nath
13:00	Lunch Break		
14:00	Harshit Krishna	A laboratory atmospheric turbulence simulator for speckle imaging	A N Ramaprakash & J S Bagla
14:30	Soumadip Bhowmick	Laboratory Characterization of HAWAII-xRG Detectors for Future Near-Infrared Instruments	A N Ramaprakash & J S Bagla
15:00	Manthan Bhagat	Designing a UV-Optical space telescope	A N Ramaprakash & J S Bagla
15:30	Tea / Coffee Break		
16:00	Kavish Sardana	Galaxy Cluster Phase Space in Extended GR scenarios	Andrea Lapi & J S Bagla
16:30	Harshit Krishna, Soumadip Ravindranath & Manthan Bhagat (This joint project is also a part of the MS thesis for them)	A Telescope Control System for Giravali observatory	A N Ramaprakash & J S Bagla

Dec.2, 2026, AB1 Conference Room

Time	Name	Title	Mentor(s)

9:30	Kshitish Kumar Ratha	Analysis of Low Frequency Atomospheric Newtonian Noise in Underground Gravitational Wave Detectors	Yutaka Shikano & J S Bagla
10:00	Aadhya Tripathi	Understanding Exoplanetary Atmospheres	Kinshuk Acharya & J S Bagla
10:30	Riddhi Panja	Estimating Gravitational Wave Signals from Binary Star Systems in the Low-Frequency Regime	J S Bagla
11:00	Tea / Coffee Break		
11:30	Swalih Ahamed Valiyakath	Astrophysical observations from rotating spactimes	Pankaj Joshi & Kinjalk Lochan
12:00	Naveen Saini	Quantifying the quantum nature of gravity	Kinjalk Lochan
12:30	Sanatan Bhardwaj	Structure and Detection of Entanglement in Quantum Fields	Krishnamohan Parattu & Kinjalk Lochan
13:00	Karan Dnyaneshwar Thakar	Hamiltonian formulation of gravity and generalization of Hamiltonian formulation to alternate theories of gravity	Kaushik Bhattacharya & Kinjalk Lochan
13:30	Lunch / Closing		