

PROGRAMME SCHEDULE

Astrophysical jets and observational facilities : National perspective

Day 1 - 05th April 2021 : Active Galactic Nuclei (AGNs)/Blazars

09:00-09:10	Welcome address by Director ARIES
09:10-09:15	Inaugural speech by P C Agrawal, TIFR
09:15-10:00	AI techniques in astronomy & the nature of the compact object in low mass X-ray binaries , Ajit K. Kembhavi, IUCAA

	Session chair : Brijesh Kumar
10:00-11:00	Jets from Active Galactic Nuclei , K. P. Singh, IISER Mohali
11:00-11:15	Tea break
11:15-11:45	Gamma-ray flares from relativistic magnetic reconnection in blazar's jet. , Amit Shukla, IIT Indore
11:45-12:15	Confirming the presence of supermassive black hole binary in OJ 287 using multi-wavelength observations , Lankeshwar Dey, TIFR
12:15-12:45	ASTROSAT studies of type-I AGNs , G. C. Dewangan, IUCAA
12:45-13:00	Kiloparsec-scale radio jets in radio galaxies , Dharam Lal, NCRA-TIFR
13:00-13:15	Clues regarding the origin of jets in host galaxy morphology , Rupjyoti Gogoi, Tezpur University
13:15-13:30	AstroSat observation of the HBL 1ES,1959+650 during its October 2017 flaring , Zahir Shah, IUCAA
13:30-14:30	Lunch Break (1hr)
	Session chair : A. Gopakumar
14:30-15:00	New Spectral Phases of Blazar OJ 287: Exploring a complete spectrum of problems related to Jet and Accretion Physics , Pankaj Kushwaha, ARIES
15:00-15:30	On the Origin of Relativistic Jets: 2021 & Beyond , Vaidehi S. Palia, ARIES
15:30-15:45	Young radio sources , Dhruva Saikia, IUCAA
15:45-16:00	Comparative intra-night optical variability of radio-loud narrow line Seyfert 1 galaxies with and without radio jets , Vineet Ojha, ARIES

16:00-16:15	Soft X-ray excess observed in a blazar OJ 287 , <i>Main Pal, Jamia Millia Islamia</i>
16:15-16:45	Tea Break + Poster Viewing
16:45-17:00	Interpreting the curved X-ray spectral features in high energy-peaked blazars , <i>Pranjupriya Goswami, Tezpur University</i>
17:00-17:15	Identification of the farthest γ-ray detected narrow-line Seyfert 1 galaxy , <i>Suvendu Rakshit, ARIES</i>
17:15-17:30	Study of precessing Jets in a radio galaxy, J1328+2752, with GMRT and VLBI , <i>Sumana Nandi, NCRA-TIFR</i>
17:30-18:00	Joint Discussion / Poster Viewing

Day 2 - 06th April 2021 : Gamma-ray bursts (GRBs), Supernovae and GW candidates

	Session Chair : Poonam Chandra
09:30-10:30	Physics of Gamma-Ray Bursts (GRBs) and afterglows , <i>Dipankar Bhattacharya, IUCAA</i>
10:30-11:00	FRBs and GRBs , <i>Shriharsh Tendulkar, TIFR</i>
11:00-11:15	Tea Break
11:15-11:45	An overview of the observations and physics of the prompt emission of gamma ray bursts , <i>Shabnam Iyyani, IUCAA</i>
11:45-12:15	Afterglow Modelling and Energetics of Gamma Ray Bursts , <i>Kuntal Misra, ARIES</i>
12:15-12:45	sGRBs and GW events , <i>K. G. Arun, Chennai Mathematical Institute</i>
12:45-13:00	GRB 140102A : Insight into Prompt Spectral Evolution and Early Optical Afterglow Emission , <i>Rahul Gupta, ARIES</i>
13:00-13:15	Search for the merger ejecta emission from very late time radio observations of short Gamma-Ray Bursts , <i>Ankur Ghosh, ARIES</i>
13:15-13:30	GRBs-Supernovae connections , <i>Amit Kumar, ARIES</i>
13:30-14:30	Lunch Break
	Session chair : Nayantara Gupta

14:30-15:00	GW aspects of sGRBs/lGRBs and SNe , <i>V. Bhalerao, IIT Bombay</i>
15:00-15:30	Fast Blue Optical Transients - a new class of transients with jets in high density medium , <i>A. J. Nayana, Working in Kerala</i>
15:30-15:45	Comparison of superluminous supernova PTF10hgi and persistent source of repeating FRB 121102 , <i>Surajit Mondal, NCRA-TIFR</i>
15:45-16:00	Investigating short GRBs with 3.6m DOT , <i>Dimple, ARIES</i>
16:00-16:45	Tea Break + Poster Viewing
16:45-17:00	Analysis of core-collapse supernovae using Publicly available tools , <i>Amar Aryan, ARIES</i>
17:00-17:15	Deciphering the asymmetries in interacting SNe , <i>Anjasha Gangopadhyay, ARIES</i>
17:15-18:00	Joint discussion/ Poster Viewing

Day 3 - 07th April 2021 : X-ray binaries/ micro-quasars

	Session Chair : Sudip Bhattacharya
09:30-10:30	X-ray binaries/micro-quasars , <i>R.Misra, IUCAA</i>
10:30-11:00	Jets, Outflows and Spectral States of black hole binaries , <i>Sandip Chakrabarti, ICSP, Kolkata</i>
11:00-11:15	Tea Break
11:15-11:45	Connecting X-ray variability and radio jets in microquasars on a detailed timescale , <i>Mayukh Pahari, IIT Hyderabad</i>
11:45-12:15	Fast timing with AstroSat and new light on X-ray binaries using the multiwavelength approach , <i>Aru Beri, IISER Mohali</i>
12:15-12:45	Jets around X-ray binaries , <i>Indranil C. , ARIES</i>
12:45-13:00	Two temperature advective accretion discs around black holes , <i>Shilpa Sarkar, ARIES</i>
13:00-13:15	Accretion and Ejection Properties of Short Orbital Period Transient Black Hole Candidates , <i>Dipak Debnath, ICSP, Kolkata</i>
13:15-13:30	X-ray Properties of Black Hole Candidate XTE J1752-223 during its 2009-10 Outburst , <i>Kaushik Chatterjee, ICSP, Kolkata</i>
13:30-14:30	Lunch Break
	Session chair : S. Naik

14:30-15:00	Role of pseudo potential in studying black holes and X-ray binaries , <i>Santabrata Das, IIT Guwahati</i>
15:00-15:30	Astrosat/LAXPC: study of microquasars , <i>J. S. Yadav, IIT Kanpur</i>
15:30-15:45	The long-term X-ray flux distribution of Cygnus X-1 using RXTE-ASM and MAXI observations , <i>Kabita Deka, Tezpur University</i>
15:45-16:00	Comprehensive X-ray study on 4U 1957+115 using AstroSat, SWIFT and NuSTAR , <i>Sneha Mudambi, CHRIST (Deemed to be university)</i>
16:00-16:45	Tea Break + Poster Viewing
16:45-17:00	Inner region of the accretion disk and jet in the Z source GX 17+2 and atoll source 4U 1705-44 , <i>Malu S, Osmania University</i>
17:00-17:15	Rapid transitions of QPOs in Black hole binaries and its association with Jets/accretion ejection phenomena , <i>K. Sriram, Osmania University</i>
17:15-17:30	Jets, disc-winds and oscillations around Kerr black hole , <i>Indu K. Dihingia, IIT Indore</i>
17:30-18:00	Joint discussion/ Poster Viewing

Day 4 - 08th April 2021 : Existing Indian observational facilities and major results

	Session chair : K. K. Yadav
09:30-10:30	Observational facilities-1 (GMRT) , <i>J. Chengalur, NCRA-TIFR</i>
10:30-11:10	Observational facilities-2 (3.6m DOT) , <i>R. Sagar, IIA</i>
11:10-11:30	Tea Break
11:30-12:10	HCT 2.0m and major results , <i>Sahu D. K., IIA</i>
12:10-12:50	Observational facilities-4 (ASTROSAT-X Ray) , <i>P. C. Agrawal, TIFR (Retd.)</i>
12:50-13:30	Observational facilities-5 (ASTROSAT UVIT) , <i>S. Tandon, IUCAA</i>
13:30-14:30	Lunch Break

	Session chair : V. Girish
14:30-15:00	Observational facilities-6 (Gamma Ray Astronomy with Imaging Atmospheric Cherenkov Telescopes) , <i>K. K. Singh, BARC</i>
15:00-15:30	Observational facilities-7 (HAGER/PACT) , <i>Varsha Chitnis, TIFR</i>
15:30-16:00	Indian & International Pulsar Timing Array , <i>Bal Chandra Joshi, NCRA-TIFR</i>
16:00-16:15	Tea Break
16:15-16:45	Science with 8-10m class telescopes , <i>R. Srianand, IUCAA</i>
16:45-17:15	Ground- and space-based infrared instrumentation facilities at TIFR , <i>D. Ojha, TIFR</i>
17:15-18:00	Joint discussion/ Poster Viewing

Day 5 - 09th April 2021 : Upcoming observational facilities and future plans

	Session chair : P. Majumdar
09:30-10:10	TMT International Observatory , <i>Ramaprakash, IUCAA</i>
10:10-10:50	NLOT Project , <i>G. C. Anupama, IIA</i>
10:50-11:30	LIGO-India , <i>Somak Raychaudhury, IUCAA</i>
11:30-11:50	Tea break
11:50-12:30	SKA , <i>Yashwant Gupta, NCRA-TIFR</i>
12:30-13:10	2.5m PRL Telescope project , <i>Abhijit Chkravarti, PRL</i>
13:10-13:30	Present status of the upcoming 4m ILMT and science cases , <i>Brajesh Kumar, ARIES</i>
13:30-14:30	Lunch Break
	Session chair : E. Reddy
14:30-15:10	Future of space-based astronomy in India , <i>P. Sreekumar, ISRO</i>
15:10-15:50	XPoSAT mission , <i>Biswajit Paul, RRI</i>
15:50-16:30	INSIST mission , <i>A. Subramaniam, IIA</i>
16:30-16:45	Tea Break

16:45-17:30	India's role in TMT Science instrumentation , Sivarani T., IIA
17:30-18:00	Joint Panel Discussion
	Concluding Remarks by Director ARIES
	Closing of the Workshop