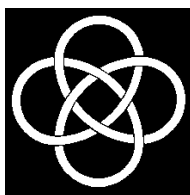


IUCAA



INTER-UNIVERSITY CENTRE FOR ASTRONOMY AND ASTROPHYSICS
(An Autonomous Institution of the University Grants Commission)

VISITING ASSOCIATES (Current List)

Last updated on August 2020

Total No. 181

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
1.	Dr. Sheelu Abraham Assistant Professor Department of Physics Marthoma College Chungathara, Malappuram Kerala - 679 334	Phone : 7875352218 (O) 9605892349 (M) E-mail : sheeluabraham@gmail.com	My research interest lies in exploring state-of-the-art ML techniques to tackle problems related to astronomy & astrophysics. This includes star-galaxy-quasar classification, transient analysis in advanced LIGO, CRTS & Astrosat CZTI, photometric redshift. I also have experience in handling big data, GPU computing and Deep Neural Networks.
2.	Dr. Gazi Ameen Ahmed Department of Physics Tezpur University Napaam Tezpur -784 028 Assam	Phone : (03712) 275556 (O) 9435014377 (M) Fax : (03712) 267006 E-mail : gazi@tezu.ernet.in, gazi@associates.iucaa.in	Development of light scattering theories, Development of experimental setups using laser-based instrumentation.
3.	Dr. G. Ambika Chair, Physics and Dean, Academics Indian Institute of Science Education and Research (IISER) Transit Campus Sree Rama Engineering College Karkambadi Road, Mangalam Tirupati - 517 507	Phone : (0877) 2500230 (O) 9890463122 / 8772500230 (M) E-mail : ambika@associates.iucaa.in, g.ambika@iisertirupati.ac.in, gouriambika@gmail.com	Nonlinear Dynamics and Chaos.
4.	Dr. Rizwan Ul-Haq Ansari Department of Physics School of Sciences Education and Training Building Maulana Azad National Urdu University, Gachibowli Hyderabad - 500 032 Telangana	Phone : (040) 23008323 (O) (040) 23536000 (R) 9490315023 (M) E-mail : rizwanans@gmail.com	Cosmology, Early Universe and Inflation, Cosmological Perturbation theory, Study of perturbations in dark energy, Braneworld Cosmology, late time acceleration of the universe.

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
5.	Prof. Bijan Kumar Bagchi Department of Physics Shiv Nadar University Gautam Buddha Nagar Greater Noida Uttar Pradesh - 201 314	Phone : 9874744141 (M) E-mail : bbagchi123@gmail.com	Gravity and Entropy from non-Hermitian perspective.
6.	Dr. Tanwi Bandyopadhyay Mathematics Adani Institute of Infrastructure Engineering Shantigram Township Near SGVP Circle Sarkhej-Gandhinagar Highway P.O. Adalaj Ahmedabad - 382 421	Phone : (079) 25558798 (O) 9925967683 (M) E-mail : tanwib@gmail.com tanwi@associates.iucaa.in	Gravitation, Cosmology.
7.	Dr. Arunima Banerjee Indian Institute of Science Education and Research (IISER) Tirupati C/o Sree Rama Engineering College (Transit Campus) Rami Reddy Nagar Karakambadi Road Mangalam (P.O.) Tirupati - 517 507 Andhra Pradesh	Phone : (0877) 2500446 (O) 9764456117 (M) E-mail : arunima.physics@gmail.com	The development of a coherent theory of the formation and evolution of galaxies, based on observational surveys of galaxies throughout the universe as well as computer simulations of the key physical processes at play during galaxy formation, is one of the central goals of contemporary astrophysics.
8.	Dr. Shyamal Kumar Banerjee Department of Mathematics Centre for Engineering Studies University of Petroleum and Energy Studies, Bidholi Campus Dehradun - 248 007 Uttaranchal	Phone : 9760818302 (M) Fax : (0120) 2432200 E-mail : skbanerjee@ddn.upes.ac.in, skb@associates.iucaa.in	General Relativity, Cosmology.
9.	Dr. Sarmistha Banik Department of Physics BITS Pilani, Samirpeth Hyderabad - 500 078	Phone : (040) 66303593 (O) 8466054465 (M) E-mail : sarmistha.b@gmail.com sarmistha@associates.iucaa.in	Nuclear Astrophysics, Neutron Stars, Supernova explosion, Gravitational Waves.
10.	Dr. Prasad Basu Cotton College State University College Hostel Road Panbazar Guwahati - 781 001 Assam	Phone : (033) 25850641 (R) 8116819083 (M) E-mail : prasadcsp@gmail.com pbasu@associates.iucaa.in	Black hole accretion, gravitational waves, etc.
11.	Dr. Aru Beri IISER Mohali Office No-1F5, Academic Block-I Department of Physics IISER Mohali, Knowledge City, Sector 81, Sas Nagar, Manauli PO -140 306	Phone : 91172 – 2293105 (O) : 9988481264 (M) E-mail : aruberi@iisermohali.ac.in	Multi-wavelength study of X-ray Binaries, Transient Astronomy which also includes the study of Very Faint X-ray Transients (VFXTs). Magnetosphere and Accretion disc Interaction Mechanisms in high magnetic field neutron star binaries. Constraining accretion geometry of neutron star X-ray binaries using Spin Phase Resolved Spectroscopy. To perform timing and spectral studies using data from X-ray instruments like AstroSat, NICER, NuSTAR, XMM-Newton, Swift to study accretion flows around NS-LMXBs and BH-LMXBs. Development of new and improved models for studying time resolved spectra during Thermonuclear X-ray bursts in a broadband. Calculation of orbital parameters of neutron star Be-binary systems. Calculation of abundances of elements during Thermonuclear bursts seen

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
12.	Dr. Piyali Bhar Department of Mathematics Government General Degree College Singur, P.O Jalaghata Hooghly - 712 409 West Bengal	Phone : (033) 26300126 (O) 8116754967 (M) Email: piyalibhar90@gmail.com	My major research area is General theory of relativity and modified gravity. My areas of research interest are exact solutions of Einstein Field Equations, Modeling of compact Star, Black hole, Wormhole and Gravastar model. Presently I have focused my attention to the study on compact objects and wormhole model using modified theory of Gravitation and compare the result with General theory of relativity. I am also interested to study the effect of pressure anisotropy and inclusion of charge to the space-time of compact star and wormhole in modified theory of gravitation and gravitational lensing phenomenon, i.e. deflection of light by the wormhole that offers a good possibility to detect the presence of a wormhole.
13.	Prof. Rashmi Bharadwaj Head, Non-Linear Dynamics Research Lab. University School of Basic and Applied Sciences Guru Gobind Singh Indraprastha University Sector 16C, Dwarka Delhi - 110 078	Phone : (011) 25302415 (O) 9013534105 (R) 9868818880 (M) E-mail : rashmib@ipu.ac.in	Celestial Mechanics, Dynamical Astronomy, Nonlinear Dynamics, Applied Mathematics, Wavelet à “ Fractal-Chaos, Complex Dynamics, Ordinary & partial Differential Equations, Numerical Analysis, Fluid Dynamics & Optimization, Atmospheric & Environmental Sciences, Fuzzy Mathematics, Optimization Techniques, Soft Computing - Data Sciences à “ Machine Learning; Space Dynamics, Integral Equations & Boundary Value Problem, Big data Analysis
14.	Dr. Priya Bharali Department of Physics Mahatma Gandhi Government Arts College Mahe Pondicherry - 673 311	Phone : (0490) 2332319 (O) 8876660109 (M) E-mail : prbharali@gmail.com	I have studied two different x-ray transients using NuSTAR and Swift/XRT observation of the sources (MAXI J1820+070, GRS 1716-249). I have analyzed the data from the recent observation of two Galactic black hole candidates GRS 1716à “249 and MAXI J1820+070, in different modes (for timing and spectral study). Study in different modes helps to understand different physical mechanisms such as, the time variability of the observed flux, accretion disk dynamics, the spectral state evolution etc. Study of rapid X-ray variability together with X-ray spectroscopy can help in obtaining valuable information about physical environment in the vicinity of accreting compact object and accretion flow dynamics. In addition to XRBs, for GRBs we considered the possibility that an intrinsic thermal spectrum from a fire-ball like model, may be observed to be broadened if the system undergoes a rapid temperature evolution. I have constructed a toy model for GRB, with best possible set of parameters, to obtain maximum obtainable width of the spectrum.
15.	Prof. Naseer Iqbal Bhat Department of Physics University of Kashmir Hazratbal Srinagar - 190 006 Jammu and Kashmir	Phone : (0194) 22420078, (O) (0194) 2415631 (R) 9419079191 (M) Fax : (0194) 2421357 E-mail : dni_phtr@kashmiruniversity.ac. in	Observational Astronomy, Binary Stars, Variable Stars .
16.	Dr. Srijit Bhattacharjee Indian Institute of Information Technology Room No. 5056, CC-3 Devghat, Jhalwa, Prayagraj Uttar Pradesh – 211 015.	Phone : (0532) 2922541 (O) (0532) 2922291 (R) E-mail : srijuster@gmail.com	Black hole Thermodynamics Singularities in Black Holes and Semiclassical effects Testing Strong Cosmic Censorship Gravitational Memory Effect Asymptotic symmetries Membrane paradigm of Black Holes Quantum Field Theory in curved background In the past 5-6 years my research is more focused on issues of Black hole and its Thermodynamics. We could show that for any higher curvature gravity theories, the Jacobson-Myers entropy functional obeys the second law. We have also studied the no-hair theorems for static and stationary black holes. We have proven a scalar no-hair theorem for a reflecting star in flat as well as de-Sitter space. My recent research focuses on studying Asymptotic symmetries near the horizon of a black hole and obtaining memory of such symmetries. I want to understand if there is a holographic relation exists in flat space. I am also studying the inner horizon instabilities and strong cosmic censorship conjecture in both classical and semiclassical framework for black hole spacetimes.
17.	Dr. Debbijoy Bhattacharya Manipal Centre for Natural Sciences Manipal University Manipal - 576 104 Karnataka	Phone : (820) 2923571 (O) 9845090185 (M) Fax : (0820) 2570062 E-mail : debbijoy@gmail.com, debbijoy@associates.iucaa.in	General Relativity, Astrophysics, Cosmic Strings.
18.	Dr. Subhra Bhattacharya Department of Mathematics Presidency University 86/1, College Street Kolkata - 700 073	Phone : 8274000563 (R) 9830403955 (M) E-mail : subhra.ju@gmail.com	General Relativity and its Applications, Cosmology - Problems pertaining to interacting models of Dark Energy and Dark Matter; Inflation, Wormholes, Emergent Universes
19.	Dr. K.G Biju Associate Professor Department of Physics WMO Arts & Science College Muttil PO, Wayanad Kerala - 673 122	Phone: (04936) 203382 (O) (04936) 246869 (R) 9447546217 (M) E-mail: kgbiju42@gmail.com	My area of research is extragalactic astronomy, and in which I am mainly working on the multi-wavelength characteristics of giant radio sources. My first research project was with Prof. Joydeep Bagchi of IUCAA, on a megaparsec-scale radio source hosted by an unusual spiral galaxy. Later on, we worked on a very peculiar radio source with precessing jets from a merging system of nine galaxies (Zwickys Nonet) at the centre of the galaxy cluster Abell 407. We have completed the multi-wavelength studies of five GRGs using GMRT observations and data from various optical, infrared and X-ray sky surveys. We are continuing the work with more samples of GRGs.

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
20.	Dr. Ritabrata Biswas Department of Mathematics The University of Burdwan Golapbag, Burdwan West Bengal - 713 104	Phone : 9474341036 (R) 7407206393 (M) E-mail : biswas.ritabrata@gmail.com	Dark energy, Quantum cosmology.
21.	Dr. Debasish Borah Department of Physics Indian Institute of Technology Guwahati Assam - 781 039	Phone : 7896705801 (M) E-mail : debasish.phy19@gmail.com debasish@associates.iucaa.in	Neutrino masses, leptonic mixing, lepton flavor violation, dark matter model building, dark matter indirect detection signatures, connecting dark matter with neutrino physics, origin of matter antimatter asymmetry.
22.	Dr. Koushik Chakraborty West Bengal Educational Service Burdwan West Bengal - 713 104	Phone : (033) 26802085 (O) (033) 25520674 (R) 9874134091 (M) E-mail : kchakraborty28@yahoo.com koushik@associates.iucaa.in	General Theory of Relativity.
23.	Prof. Subenoy Chakraborty Department of Mathematics Jadavpur University Kolkata - 700 032	Phone : (033) 24146717 (O) (033) 26845638 (R) 9433356784 (M) E-mail : subenoy@associates.iucaa.in, subenoyc@yahoo.co.in,	Mathematical Physics, Quantum Mechanics, Relativity, Cosmology.
24.	Dr. Nand Kumar Chakradhari SOS in Physics and Astrophysics Pandit Ravishankar Shukla University Raipur - 492 010 Chhattisgarh	Phone : (0771) 2262864 (O) : 9753872241 (M) E-mail : nkchakradhari@gmail.com kchakradhari@associates.iucaa.in	Supernovae, Chemically Peculiar Stars, Variable stars, Galaxies.
25.	Prof. Hum Chand Department of Physics and Astronomical Sciences Central University of Himachal Pradesh Temporary Academic Block Shahpur, Kangra Himachal Pradesh - 176 206	Phone : 9760154111 (R) 6396937743 (M) E-mail : humchand@gmail.com	Extra-galactic astronomy: (1) Time and space variation of fundamental constants using very high resolution spectra of QSOs, (2) MgII absorbers as probe of high-z proto-galaxy, viz environment and magnetic field (3) Physical state of IGM using Lyman-alpha forest (4) Multi-wavelength study of AGN viz NLSy1s/BLSy1s (5) AGN variability properties on diverse time scale (iv) Weak emission line QSOs (6) AGN outflow and BAL-QSOs (7) Photometric reverberation mapping and black hole mass measurement of AGN.
26.	Dr. Ramesh Chandra Department of Physics DSB Campus Kumaun University Nainital - 263 002 Uttarakhand	Phone : (05942) 237450 (O) (05942) 231497 (R) 9690681836 (M) Fax : (05942) 237450 E-mail : rchandra.ntl@gmail.com rchandra@associates.iucaa.in	Multi-wavelength study of Solar flares, Solar eruptive events.
27.	Prof. Suresh Chandra Amity Centre for Astronomy & Astrophysics Amity Institute of Applied Sciences Amity University Campus Sector - 125, Noida - 201 313 Uttar Pradesh	Phone : (0120) 4392468 (O) 9818005663 (M) E-mail : sch@associates.iucaa.in, schandra2@amity.edu	Solar Physics, Interstellar Molecular Clouds.

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
28.	Dr. Ayan Chatterjee Department of Physics Central University of Himachal Pradesh Temporary Academic Block Kangra - 176 206 Himachal Pradesh	Phone : (01892) 237285 (O) 9736863853 (M) E-mail : ayan.theory@gmail.com ayan_theory@associates.iucaa.in	Black hole physics.
29.	Dr. Ritaban Chatterjee Department of Physics Presidency University 86/1, College Street Kolkata - 700 073	Phone : (033) 40529844 (O) (033) 25642231 (R) 8017447597 (M) E-mail : ritaban.physics@presiuniv.ac.in	Structure and dynamics of accreting black hole systems.
30.	Dr. Suchetana Chatterjee Department of Physics Presidency University 86/1, College Street Kolkata -700 073	Phone : 9163003206 (M) E-mail : suchetana.physics@presiuniv.ac.in	CMB, AGN, etc.
31.	Prof. Asis Kumar Chattopadhyay Department of Statistics University of Calcutta 35, Ballygunge, Circular Road Kolkata - 700 019	Phone : (033) 22410071 (O) (033) 25001850 (R) 9831985850 (M) Fax : (033) 24764419 E-mail : akcstat@gmail.com akcstat@caluniv.ac.in	Star and Galaxy Formation, Analysis of Astronomical Data using Statistical Tools.
32.	Dr. Surajit Chattopadhyay Department of Mathematics Amity University, Kolkata Major Arterial Road, Action Area II Rajarhat, New Town Kolkata - 700 135 West Bengal <i>Address for correspondence :</i> 38F New Ballygunge Road, Ground Floor (Adjacent to Loknath Cable Office), Kolkata – 700 039.	Phone : (033) 24535605 (O) (0312) 266353 (R) 9830736116 (M) E-mail : surajcha@associates.iucaa.in	Gravity, Thermodynamics, etc.
33.	Prof. Tanuka Chattopadhyay Department of Applied Mathematics University of Calcutta 92, A.P.C. Road Kolkata - 700 009 West Bengal	Phone : (033) 25001850 (O) (033) 23508386 (R) 9433648255 (M) Fax : (033) 23519755, 22413222 E-mail : tanuka@associates.iucaa.in, tchatappmath@caluniv.ac.in	Spiral Galaxies, Star Formation, Dark Matter.
34.	Dr. Raghavendra Chaubey DST-Centre for Interdisciplinary and Mathematical Sciences Faculty of Science Banaras Hindu University Varanasi – 221 005	Phone : (0542) 2369337 (O) 9919267475 (M) E-mail : rchaubey@bhu.ac.in,	
35.	Prof. Bhag Chand Chauhan Central University of Himachal Pradesh (CUHP) Dharamshala, Dist. Kangra Himachal Pradesh - 176 215	Phone : (01892) 237285 (O) 9418472694 (M) E-mail : chauhan@associates.iucaa.in bcawake@hpcu.ac.in	Neutrinos in A&A and Cosmology.

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
36.	Dr. Laxmikant Chaware Centre for Basic Sciences Pandit Ravishankar Shukla University Behind University Auditorium University Campus Raipur - 492 010	Phone : (0771) 2262216 (O) 9926555788 (M) Email :chaware.laxmikant@gmail.com	My area of research interest: (1) Galaxy morphology (2) studying isophotal shapes of galaxies at fainter surface brightness levels (3) Study of Low Surface Brightness galaxies (4) Study of dust in early-type galaxies Observational Experience: (1)Spectroscopic observation of galaxies using multi-fibre spectroscope AAOmega on 4m Anglo Australian Telescope (AAT) in service mode (2) Broad band optical, Near infrared and narrow band H-alpha imaging observations of galaxies using 2m Himalayan Chandra Telescope (Indian Astronomical Observatory, Hanle). (3)Narrow band H-alpha imaging observations from 2m telescope at IUCAA Girawali Observatory Data reduction and analysis experience: (1)Data reduction and analysis of images obtained using Large Format Camera (LFC) on 5m Hale telescope (Palomar), NIR images from 4m NTT (ESO), images from 2m telescope at IUCAA Girawali Observatory; images from 2m HCT (Hanle) (2)Data reduction and analysis of Spectra obtained using multi-fiber spectroscope AAOmega on 4m Anglo Australian Telescope (3)2D bulge-disk decomposition (4)Redshift determination (5)Stellar population synthesis (6) Detection and analysis of dust in early type galaxies
37.	Dr. Raka Vasant Dabhade Department of Physics Fergusson College F.C. Road Pune - 411 004	Phone : (020) 67656056 (O) (020) 24699040 (R) 9372495956 (M) E-mail : rakadabhade@gmail.com	During my PhD the research area was in materials science especially plasma polymerization ans sensors. But in college I am presently involved with students projects and Astronomy popularization, hence do not have much Pure research background in Astronomy Astrophysics research as such.
38.	Dr. Himadri Sekhar Das Department of Physics Assam University Silchar - 788 011 Assam	Phone : (03842) 270843 (O) 9435176013 (M) Fax : (03842) 270802, 270806 E-mail : hsdas@associates.iucaa.in, himsekhar13@yahoo.co.in	Polarization due to Light Scattering, Cometary, Interplanetary and Interstellar Dusts, etc.
39.	Dr. Shyam Das Department of Physics P.D. Women's College Club Road, Jalpaiguri West Bengal – 735 101	Phone : (03561) 230146 (O) 9832500823 (M) E-mail : dasshyam321@gmail.com	My research interests are focused on many areas in astrophysics and cosmology. Theoretical modelling of relativistic compact astrophysical systems by making use of observational data from astrophysical observables like Chandra, SKA, LIGO, is one of my research interest. I am interested to find exact solutions to Einstein field equations describing the space-time geometry of gravitationally bound systems and interpretations for a wide variety of physically motivated astrophysical systems. By adopting various ad-hoc approaches, I would like to generate exact solutions of Einstein field equations for a wide variety of physically motivated astrophysical systems. Gravitational collapse is also one of the interesting areas of my research. I am also interested in investigating the astrophysical implications of some of the modified theories of gravity. I intend to focus my research on pulsars and black holes surrounded by accretion disks and observational cosmology. Dark energy and dark matter is another field of my active research. Keeping in mind that the theoretical approaches to solving the Einstein field equations analytically and hence to find exact solutions are limited. I am now interested in numerical relativity that uses numerical methods which are widely accepted method in the field of research in general relativity.
40.	Dr. Sudipta Das Assistant Professor in Physics Department of Physics Visva-Bharati Siksha-Bhavana Santiniketan - 731 235	Phone : (03463) 261916 (O) (033) 24284525 (R) 7797285744 (M) E-mail : sudipta.das.m@gmail.com sudipta.das@visva-bharati.ac.in	Cosmology and Gravitation.
41.	Dr. Dhurjati Prasad Datta Department of Physics University of North Bengal P.O. North Bengal University Raja Rammohunpur Dist. Darjeeling West Bengal - 734 013	Phone : (0353) 2776383 (O) 9434377365 (M) Fax : (0353) 2776383 E-mail : dp_datta@yahoo.com dpdatta@associates.iucaa.in	Mathematical physics, Differential equations, Dynamical systems.
42.	Dr. Abhirup Datta Centre of Astronomy Indian Institute of Technology Indore Simrol, Khandwa Road Indore - 453 552 Madhya Pradesh	Phone :(0731) 2438948/960 (O) 8518886478 (M) E-mail : abhirup.datta@iiti.ac.in	Radio astronomy, Aperture Synthesis, Imaging and Calibration, High redshift galaxy, etc.
43.	Dr. Kanan Kumar Datta Department. of Physics Presidency University 86/1 College Street Kolkata - 700 073	Phone : 8697653659 (M) E-mail : datta.kanan@gmail.com kanan.physics@presiuniv.ac.in	Cosmology, Cosmic Reionization, 21-cm signal, Radio astronomy, post reionization with HI.

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
44.	Dr. Sukanta Deb Department of Physics Cotton College State University Guwahati - 781 001 Assam	Phone : (0361) 2733512 (O) 9810362087 (M) E-mail : sukantodeb@gmail.com sdeb@associates.iucaa.in	Automated classification of variable stars, astronomical photometry and spectroscopy of variable stars, light curve modeling, etc.
45.	Dr. Ujjal Debnath Department of Mathematics Indian Institute of Engineering Science and Technology Botanical Garden P.O., Shibpur Howrah - 711 103 West Bengal	Phone : (033) 26684561 (O) (03216) 236567 (R) 9433353462 (M) Fax : (033) 26682916, 4564 E-mail : ujjaldebnath@yahoo.com, ujjal@associates.iucaa.in	Cosmological Models, Study of Singularities
46.	Dr. Shantanu Desai Department of Physics Indian Institute of Technology, Hyderabad Kandi, Sangareddy - 502 285 Telangana	Phone : (040) 23016173 (O) 9619127162 (M) E-mail : shantanud@iith.ac.in shntn05@gmail.com	Particle Astrophysics, Gravitational Wave Astronomy, Observational Cosmology and Galaxy Clusters, Astrostatistics
47.	Dr. Shanti Priya Devarapalli Department of Astronomy University College of Science Osmania University Hyderabad - 500 007 Telangana	Phone : (040) 27682247 (O) (040) 23340266 (R) 9160434604 (M) E-mail : astroshanti@gmail.com	Observational study of Binaries, SdBs, Astro-seismology and Exoplanet studies.
48.	Dr. Anoubam Seniorita Devi Department of Physics Assam University Silchar - 788 011	Phone : (03842) 270843 (O) 8011543868 (M) E-mail : seniorita.anoubam@gmail.com	My main research area is high energy astrophysics, mainly dealing with X-ray satellite observed data analysis and studying the spectral and temporal properties of various kinds of X-ray sources including X-ray binaries, Ultra-luminous X-ray sources etc.
49.	Dr. Moon Moon Devi Assistant Professor Department of Physics Tezpur University Napaam Sonitpur – 784 028 Assam	Phone : (03712) 275565 (O) 9004944457 (R) 9004944457 (M) E-mail : devi.moonmoon@gmail.com	Broader area of interest: Astroparticle physics. My research interests are in the fields of neutrino, cosmic ray and dark matter phenomenology and simulation, instrumentation, and data analysis of particle detectors. My doctoral thesis is on the simulation and physics potential study of the atmospheric neutrino interactions at the proposed magnetized Iron Calorimeter detector at the India-based Neutrino Observatory (INO). I have also developed and characterized a prototype stack of six-gap Resistive Plate Chamber (RPC) detectors. I am currently studying the particle production at astrophysical sources and the extensive air shower produced by those cosmic ray particles. As a part of the hyperkamiokande collaboration, I am looking into the simulation and physics aspects including supernova neutrinos. Instrumentation for dark matter detectors have also been my interest.
50.	Prof. Vijayakumar Honnappa Doddamani Department of Physics Astrophysics Section, J B Campus Bangalore University Bengaluru - 560 056 Karnataka	Phone : (080) 22961484 (O) 9448673274 / 9481300346 (M) E-mail : drvkdmani@gmail.com	emit very high thermal and non-thermal radiation from unresolved compact nuclear regions called as Active galaxies (AGNs). Hence, AGNs are the most luminous objects in the universe. The nuclei of the active galaxies are very compact ($r < 10^{14}$ cm, Edelson et al. 1996) and generates copious amount of energy nearly constant over the entire electromagnetic spectrum. An important property of AGN spectra involves the observation of both high and low ionization lines (HILs and LILs). Low and high ionization lines we mean that these lines are emitted by ionic species with ionization potential (IP) ≈ 20 eV (H I, Mg II, C II, Fe II, Ca II) and with high IP ≈ 40 eV (CIV, NV) respectively (Marziani P, 2014). Active galaxies have been broadly classified into different types based on their luminosity, emission line properties, appearance and variability characteristics into Seyfert1 and Seyfert2 galaxies, HII regions, LINERS, Quasars, Blazars and Optically Violent Variables, etc. The physics of the diversification of AGNs, spectral properties, rapid, small and large amplitude line and continuum variability is not well understood. During my tenure as associate, I would like carry out optical/UV/X-ray spectroscopic studies of Seyfert galaxies and quasars.
51.	Dr. Broja Gopal Dutta Department of Physics Rishi Bankim Chandra College (West Bengal State University) East Kantalpara, Naihati North 24 Parganas West Bengal - 743 165	Phone : (03220) 249227 : 9433413402 (M) E-mail : brojadutta@gmail.com broja@associates.iucaa.in	Astrophysics

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
52.	Dr. Jibitesh Dutta Department of Basic Sciences and Social Sciences School of Technology North-Eastern Hill University Mawkyntroh-Umshing Mawlai Shillong - 793 022 Meghalaya	Phone : (0364) 2723659 (O) (0364) 2231147 (R) 9863021745 (M) E-mail : jduutta29@gmail.com jduutta@associates.iucaa.in	Gravitational Thermodynamics in Modified Gravity Theories, Dynamical Systems in Modified Gravity based Cosmology .
53.	Prof. Sukanta Dutta High Energy Physics and Cosmology Laboratory Department of Physics Sri Guru Tegh Bahadur Khalsa College University of Delhi Delhi -110 007	Phone : (011) 27667469 (O) (011) 41764214 (R) 9811687970 (M) E-mail : sukanta.dutta@gmail.com sduutta@associates.iucaa.in	High Energy Physics, Astroparticle Physics and Cosmology.
54.	Dr. Gurudatt Gaur Institute of Advanced Research (The Puri Foundation for Education in India) Koba Institutional Area Gandhinagar Gujarat - 382 426	Phone : (079) 30514366 (O) 9537672348 (M) E-mail : gurudattgaur@gmail.com gurudatt@associates.iucaa.in	Gravitational wave physics, Detector characterization and veto development for gravitational wave searches. Gravitational wave astronomy.
55.	Dr. Abhik Ghosh Department of Physics Banwarilal Bhalotia College Ushagram, Asansol West Bengal – 713 303	Phone : 7477354789 (M) E-mail : abhik.physicist@gmail.com	Radio interferrometry, Astro-statistics, Observation and statistical detection of redshifted 21-cm HI signal, 21-cm Cosmology, Radio polarimetry, Extragalactic radio-source evolution at low frequencies, Detecting diffuse radio emission from galaxy clusters, Deep low frequency radio survey - Observations, data analysis and source catalogue construction.
56.	Dr. Suman Ghosh Department of Physics Indira Gandhi National Tribal University Amarkantak- 484 887 Madhya Pradesh	Phone: 9433907900 (M) E-mail : smnphy@gmail.com	Gravitation, quantum field theory in curved space, astrophysics and cosmology
57.	Prof. Sushant G. Ghosh Centre for Theoretical Physics Jamia Millia Islamia Maulana Mohammed Ali Jauhar Marg New Delhi - 110 025	Phone : (011) 26984830 (O) (0129) 4080101 (R) 9971348628 (M) Fax : (011) 26981753 E-mail: sgghosh@associates.iucaa.in, sgghosh@gmail.com	General Relativity, Cosmology.
58.	Dr. Sutapa Ghosh Department of Physics Taki Government College Kolkata - 743 429 West Bengal	Phone : (033) 25523365 (O) 9477251168 (M) E-mail : neutronstar12@yahoo.co.in sutapa@associates.iucaa.in	Some Studies on Magnetic Properties of Dense Stellar Matter.€ •

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
59.	Dr. Tuhin Ghosh School of Physical Sciences National Institute of Science Education and Research Khurda -752 050 Odisha	Phone: 6742494292 (O) 8847858187 (M) E-mail : tghosh@niser.ac.in	Cosmology with Cosmic Microwave Background radiation and thermal Sunyaev-Zeldovich effect. Detection of the primordial gravitational waves from early Universe and physics of the interstellar medium.
60.	Dr. Ankur Gogoi Assistant Professor Department of Physics Jagannath Barooah College (Autonomous) Jorhat - 785 001 Assam	Phone: (0376) 2320060 9435711908 (M) E-mail : ankurgogoi@gmail.com	Light scattering by interstellar dust analogues, light scattering by turbid media, biophotonics, laser based instrumentation
61.	Dr. Rupjyoti Gogoi Department of Physics Tezpur University Napaam Tezpur - 784 028	Phone : (03712) 275577 (O) (03712) 273822 (R) 9435559488 (M) E-mail : gogoi@associates.iucaa.in rupjyotigogoi@gmail.com	Infrared studies of nearby galaxies.
62.	Dr. Gaurav Goswami School of Engineering and Applied Science Ahmedabad University GICT Building, Central Campus Navrangpura Ahmedabad - 380 009	Phone : (079) 61911171 (O) 8238629410 (M) E-mail : gaurav.goswami@ahduni.edu.in	Interface of cosmology and high energy physics.
63.	Dr. Umananda Dev Goswami Department of Physics Dibrugarh University Dibrugarh - 786 004 Assam	Phone : (0373) 2370224 (O) 9435618206 (M) E-mail : umananda2@gmail.com umananda@associates.iucaa.in	Theoretical and experimental astroparticle physics, Astronomy, astrophysics and cosmology.
64.	Dr. Aruna Govada Head of Department Computer Engineering Government Polytechnic Varkund Daman Daman and Diu - 396 210	Phone : 9730244034 (M) E-mail : arubitsgoa@gmail.com	Data Mining, Distributed Data Mining, Machine Learning, Parallel/Distributed Computing, Relational Data Mining, Database Systems.
65.	Dr. Shivappa Bharamappa Gudennavar Department of Physics Christ University Bengaluru - 560 029 Karnataka	Phone : (080) 40129387 (O) 9448002580 (M) Fax : (080) 40129000 E-mail : shivappa.b.gudennavar@christuniversity.in shivappa@associates.iucaa.in	Interstellar medium, Extragalactic astronomy.
66.	Dr. Sarbari Guha Department of Physics St. Xavier's College 30, Park Street Kolkata - 700 016	Phone : (033) 22877278, 22801927 (O) 9231665828 (M) Fax : (033) 22879966 E-mail : srayguha@yahoo.com, guha@associates.iucaa.in	General Relativity and Cosmology.

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
67.	Dr. Mamta Gulati School of Mathematics Thapar Institute of Engineering and Technology Bhadson Road, Patiala Punjab - 147 004	Phone : 0175 – 2393436 91 8284903760 (M) E-mail : mamta.gulati@thapar.edu	Galaxy evolution, Gravitational dynamics, Lopsided galaxies, Galactic nuclei, Stellar orbits
68.	Dr. K.P. Harikrishnan Department of Physics The Cochin College Kochi - 682 002 Kerala	Phone : (0484) 2224954 (O) (0484) 4042990 (R) 9947771354 (M) Fax : (0484) 2577595 E-mail : kph@associates.iucaa.in kp_hk2002@yahoo.co.in	Chaos in Nonlinear Dynamical Systems.
69.	Dr. Priya Hasan Department of Physics Maulana Azad National Urdu University Gachibowli Hyderabad - 500 032 Telangana	Phone : (040) 23006612-15 (O) (040) 23306959 (R) 9701811881 (M) E-mail : priya.hasan@gmail.com priya@associates.iucaa.in	Star clusters, Star formation, Photometry, Image processing.
70.	Dr. K. Indulekha School of Pure and Applied Physics Mahatma Gandhi University Kottayam - 686 560 Kerala	Phone : (0481) 2731043 (O) (0481) 2732318 (R) 93495 00776 (M) E-mail : kindulekha@gmail.com indu@associates.iucaa.in	Open Clusters, Kinematics.
71.	Dr. Joe Jacob Department of Physics Newman College Thodupuzha - 685 585 Kerala	Phone : (04862) 226086 (O) (04862) 220408 (R), 9846015011 (M) E-mail : drjoephysics@gmail.com joe@associates.iucaa.in	Microwave and Radio Wave Radiations, Microwave Imaging and Antennas.
72.	Dr. Rinku Jacob Assistant Professor of Physics Department of Basic Sciences & Humanities Rajagiri School of Engineering and Technology (RSET) Kakkanad Kochi - 682 039 <i>Address for correspondence :</i> Chembiserry House, Anchumana Road Near Atham Associates, Mamangalam, Edapally P.O, Ernakulam, Kerala – 682 025	Phone : (0484) 2660999 (O) (0484) 2343196 (R) 9446307919 (M) E-mail : rinku.jacob.vallanat@gmail.com	My areas of research include (a) Nonlinear Time Series Analysis using the measures of Complex Networks, (b) To study the effect of additive noises (white and colored noise) on topology of chaotic systems. These areas of research are applicable to different fields of science, especially in astrophysics, to analyze the light curve from variable stars and black hole systems which give us the information regarding the underlying nonlinear processes leading to the emission of light curves. This research can also be applied in the field of medical sciences for analyzing the E.C.G (Electrocardiography) and E.E.G (Electroencepha-lography) data. The E.C.G data contains the information regarding the dynamics of the heart and the E.E.G data hold the information about the complex processes that take place inside the brain. So the study on the E.C.G data helps one to predict the chances of occurring the different cardiac problems and that of E.E.G data helps to understand more on the underlying dynamics which assist to predict the occurrence of epileptic conditions in a patient.

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
73.	Dr. Deepak Jain Department of Physics Deen Dayal Upadhyaya College (University of Delhi) Sector-3, Dwarka New Delhi - 110 078 <i>Address for correspondence:</i> 91, Bhagirathi Apartments, Sector 9 Rohini, Delhi - 110 085	Phone : (011) 25099381 (O) Fax : (011) 25099380 (011) 27865102 (R) E-mail : djain@ddu.du.ac.in, djain@associates.iucaa.in	Cosmology and Gravitational Lensing.
74.	Dr. Rajeve Kumar Jain Department of Physics Indian Institute of Science Bangalore - 560 012 Karnataka	Phone: (080) 22933618 (O) E-mail: rkjain@iisc.ac.in	Theoretical cosmology, Inflation and alternatives, Cosmic Microwave Background, Primordial magnetic fields, Non-gaussianities, Effective field theory of gravity, Modified gravity, Dark energy
75.	Dr. Charles Jose Department of Physics Cochin University of Science and Technology (CUSAT) South Kalamassery, Kalamassery Kochi – 682 022 Kerala	Phone : (0484) 2577290 (O) 8606434507 (M) E-mail : charlesmanimala@gmail.com	Cosmology, large scale structures in the universe, Probes of fundamental physics using cosmology, etc.
76.	Dr. Jessy Jose IISER Tirupati, Karakambadi Road Mangalam P.O - 517 507	Phone : 9945402801 (M) E-mail: jessyvjose1@gmail.com	Observational Astronomy, Star formation, HII regions, Feedback mechanisms, Brown dwarfs and free-floating planetary mass objects in the solar neighbourhood
77.	Dr. Minu Joy Department of Physics Alphonsa College Arunavaram P.O. - 686 574 Pala, Kerala	Phone : (04822) 213033 (R) : 9747930507 (M) E-mail : minujoy@gmail.com minu@associates.iucaa.in	Cosmology and Quantum Gravity, Cosmological Perturbation.
78.	Dr. Jeena K. Department of Physics Providence Women's College Malaparamba (P.O) Calicut - 673 009 Kerala	Phone: (0495) 2371696 9495658547 / 9495658547 E-mail : jeenakarunakaran@gmail.com	Multi Wavelength Study Of Ultra-luminous X-Ray Sources(Ulxs), AGNs, Blazars, Spectral And Timing Studies Of AGNs, X-Ray Data Analysis
79.	Dr. Sathya Narayanan K. Department of Physics The Cochin College Mattancherry Ernakulam - 682 002 Kerala	Phone : (0484) 2224954 (R) 9447217985 (M) E-mail : sathyanarayank@gmail.com	Diffuse UV astronomy, Dust reddening studies in molecular clouds, Galaxy evolution and formation
80.	Dr. Md. Mehedi Kalam Department of Physics Aliah University IIA/27, New Town Kolkata - 700 156	Phone : (033) 27062271(O) 9433487900 (R) 9836363707 (M) E-mail : mehedikalam@yahoo.co.in kalam@associates.iucaa.in	Relativity, Cosmology, Topological Defects, Wormhole and Blackhole Physics.

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
81.	Dr. Nandita Lahkar Kalita Department of Physics Girijananda Chowdhury Institute of Management and Technology Guwahati NH-37 Hatkhowapara Azara Guwahati - 781 017	Phone : (0361) 2843404 (O) 9864271751 (M) E-mail : nanditalahkar1@gmail.com	Stellar astrophysics, particularly in problems related to element synthesis during supernovae.
82.	Dr. Sanjeev Kalita Department of Physics Gauhati University Guwahati - 781 014 Assam	Phone : (0361) 2570531 (O) 9864087304 (M) E-mail : sanjeevkalita1@ymail.com skalita@associates.iucaa.in	Cosmology.
83.	Dr. Nishikanta Khandai School of Physical Sciences National Institute of Science Education and Research Bhubaneswar - 752 050	Phone: (674) 2494305 (O) 8249398879 (M) E-mail: nkhandai@gmail.com	Cosmology, Large Scale Structure, Cosmological Simulations, Active Galactic Nuclei and Galaxy Formation, Intergalactic Medium, 21cm line as a probe
84.	Dr. Ram Kishor Department of Mathematics Central University of Rajasthan NH-8, Bandarsindari, Kishangarh Ajmer - 305 817 Rajasthan	Phone : (01463) 238755 (O) 9166269698 (M) E-mail : kishor_math@curaj.ac.in rkishor@associates.iucaa.in	Celestial Mechanics: Mission Design under the influence of Perturbations 2. Nonlinear Dynamics and Chaos 3. Dynamical System- Solar system and Extra solar systems.
85.	Prof. Arun Venkatesh Kulkarni Birla Institute of Technology and Science KKB-Goa Campus, NH-17B Bypass Zuarinagar Vasco - 403 726 Goa	Phone : (0832) 2580309 (O) (0832) 2580502 (R) 9422971148 (M) E-mail : avkbits@goa.bits-pilani.ac.in avk@associates.iucaa.in	Nuclear Physics, Theoretical Physics, Numerical E&M, Physics teaching.
86.	Dr. Nagendra Kumar Department of Mathematics M.M.H. College Ghaziabad - 201 009 Uttar Pradesh	Phone : (0120) 2861414 (O) (0120) 2986961(R) 9555739225 (M) E-mail : nkumar@associates.iucaa.in, nagendraskgk@rediffmail.com	MHD, Plasma Physics.
87.	Dr. R.K. Sunil Kumar Department of Information Technology Kannur University Soorya Kanthi Madappally College P.O., Vatakara Kannur - 673 102 Kerala.	Phone : (0497) 2784535 (O) (0496) 2503244 (R) 9447217092 (M) E-mail : sunilkumarrk@kannuruniv.ac.in	Nonlinear Time series Analysis and Its Applications in Vocal tract modelling Speech generation has classically been modelled as a linear system, which provides a convenient and simple mathematical formulation. However a number of nonlinear effects are present in the physical process which limits the effectiveness of the linear model. We have analysed Capacity Dimension (CD), Correlation Dimension (CRD), Kolmogorov Entropy (KE) and Largest Lyapunov Exponent (LLE) of selected phoneme from different speakers. Eigen values of the Reconstructed Phase Space (EV-RPS) and Spectral Decay Coefficients (SDC) are also extracted for speaker modelling. We have experimentally verified the effectiveness of the proposed speaker identification system based on the combination of nonlinear features using Feed Forward Multilayer Perceptron Classifier (FFMLP) simulated using the error back propagation learning algorithm. The results indicate that the human vocal tract shows the properties of a deterministic chaotic system and the proposed nonlinear features can be effectively used for improved speaker identification. Speech signal Processing in Noisy Conditions Audio-visual speech recognition is a promising approach to tackling the problem of reduced recognition rates under adverse acoustic conditions. However, finding an optimal mechanism for combining multi-modal information remains a challenging task. Various methods are studied for integrating acoustic and visual information in Gaussian-mixt

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
88.	Dr. Sanjay Kumar Assistant Professor P.G. Department of Physics Patna University Patna - 800 005	Phone : 9413674416 (O) 8789705192 (M) E-mail : sainisanjay35@gmail.com	Solar Physics, Coronal Heating, Physics of Magnetic Reconnection, Magnetohydrodynamics, Computational Physics
89.	Dr. Suresh Kumar Department of Mathematics Birla Institute of Technology and Science BITA-Pilani, Pilani - 333 031 Rajasthan	Phone : (01596) 515678 (O) 7725905640 (M) E-mail : sukuyd@gmail.com sureshk@associates.iucaa.in	Dark Energy Cosmology, Exact Solutions, etc.
90.	Dr. Honey M. S.A.R.B.T.M. Government College Muchukunnu P.O. Via Koyilandy Kozhikode – 673 307 Kerala	Phone : (0496) 2690257 8549932365 (M) E-mail : honeym343@gmail.com	My research work is focused on the different evolutionary properties of low surface brightness galaxies (LSBGs) using optical, near-infrared (NIR), and HI data. The LSBGs are optically faint galaxies that are dominated by dark matter content and slowly evolving. LSBGs includes various morphological types like spirals, irregulars and dwarfs. Studying their HI masses, stellar masses, color and local environments it is found that LSB spirals are a statistically different population compared to irregulars and dwarfs. To obtain a picture of their disk evolution, the study of bar-bulge properties in LSBGs were conducted. The barred galaxy fraction among LSBGs is found to be very low compared to normal high surface brightness galaxies (HSBGs). The bulges in the barred LSBGs studied with two dimensional image decompositions. These studies showed that the majority of the bulges are classical and are similar to the bulges of normal early type galaxies. The evolutionary picture needs examination of AGN signatures too. The LSBGs were hosting Active Galactic Nuclei (AGN) with the central super massive black hole (SMBH). All these studies support the fact that LSBGs follow the evolutionary path of normal galaxies but with a slower rate.
91.	Prof. Vinjanampaty Madhurima Central University of Tamil Nadu Department of Physics Neelakudi Campus Thiruvarur - 610 005 Tamil Nadu	Phone : (04366) 277228(O) (04366) 277311 (R) E-mail : madhurima.v@gmail.com	Since my post-graduation days, I have studied weak intermolecular interactions, especially hydrogen bonds. This has taken me through the studies of organic liquids, binary (and other) liquid mixtures, nano-fluids, liquid-solid interactions, self-assembly of droplets, colloids, polymers and gels. My primary training at the Microwave and materials lab at IIT Madras, and later at the Microwave and Functional Materials lab at University of Hyderabad, was in broadband dielectric spectroscopy, with a special focus in the microwave region. In addition, I work with various spectroscopic techniques such as FTIR, NMR, Zeta potential with light scattering and confocal microscopy. Over the last ten years, I have been studying solid-liquid interfaces using contact angle goniometry. Along with experimental techniques, since my PhD days, I have used computational techniques for analysis of molecular conformation and spectral predictions. While most of my studies have been using ab initio Hartree-Fock/Density Functional Methods, a few studies using molecular dynamics and energy minimization for drops were done. All these results have been published over the years. As a part of teaching, I am also familiar with Multiphysics and high energy electromagnetic simulations.
92.	Dr. Smriti Mahajan Indian Institute of Science, Education and Research Knowledge City, Sector 81 SAS Nagar Manauli - PO Mohali - 140 306	Phone : (0172) 224012138 (O) 9653792580 (M) E-mail : mahajan.smriti@gmail.com	Evolution of galaxies; Observable properties of galaxies such as mass, star formation rate and colours; Multi-wavelength surveys of nearby galaxies; Environment of galaxies; large-scale structure formation.
93.	Dr. Liton Majumdar Assistant Professor National Institute of Science, Education and Research Room No. 03, Ground Floor Library Building Khurda – 752 050 Odisha.	Phone : 6742494482 (O) 9330369269 (M) E-mail : liton@niser.ac.in	Astrochemistry, star and planet formation using infrared, radio and sub-mm astronomy, planetary and exoplanetary atmospheres

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
94.	Prof. Shiva Kumar Malapaka International Institute of Information Technology Bangalore - 560 100 Karnataka	Phone : (080) 28527627 ext147 (O) (080) 26614766 (R) 9491531716 (M) E-mail : malapaka@iiitb.ac.in kumarshiva@gmail.com	Direct Numerical Simulations of 3D- Magneto-hydrodynamic Turbulence and Hydrodynamic Turbulence, n- body simulations of planetary formation, etc.
95.	Prof. Manzoor A. Malik Department of Physics University of Kashmir Hazratbal Srinagar - 190 006 Jammu and Kashmir	Phone : (0194) 2272311 (O) (0194) 2421485 (R) 9596256448 (M) Fax : (0194) 2421357 E-mail : mmaalik@gmail.com	Cosmological Many- Body Problems, Dark Matter, CMB.
96.	Dr. Mamta Dept. of Physics and Electronics S.G.T.B. Khalsa College University of Delhi Campus Delhi - 110 007	Phone : 9818076507 (M) E-mail : mamta.phy26@gmail.com mamta@associates.iucaa.in	Electro-weak Symmetry Breaking Mechanism, New Physics Searches at LHC.
97.	Dr. Soma Mandal Department of Physics Government Girls' General Degree College 7, Mayurbhanj Road Kolkata - 700 023	Phone : (033) 24481160 (O) 9836078964 (M) E-mail : soma2778@gmail.com soma@associates.iucaa.in	X-ray astronomical data analysis, Compact objects in strong magnetic field.
98.	Dr. Titus K. Mathew Department of Physics Cochin University of Science and Technology Kochi - 682 022 Kerala	Phone : (0484) 2577404 (O) (0484) 2577349 (R) 9995438460 (M) E-mail : titus@associates.iucaa.in tituskmathew@gmail.com titus@cusat.ac.in	Bulk viscous matter and current acceleration of the universe.
99.	Dr. Ram Ajoy Maurya Department of Physics National Institute of Technology NIT Campus P.O., Calicut - 673 601 Kerala	Phone : (0495) 2285124 (O) 8129195894 (M) E-mail : maurya.ramajor@gmail.com	Helioseismology, MHD waves in Solar Atmosphere, Solar Eruptions and associated Phenomenon, Atmospheric Heating
100.	Dr. Irom Ablu Meitei Department of Physics Modern College Porompat Imphal East - 795 005 Manipur	Phone : (0385) 2443263 (O) 9402837749, 9863330936 (M) E-mail : ablu.irom@gmail.com	Astronomy and Astrophysics.
101.	Dr. Hameeda Null Mir Department of Physics Government Sri Pratap College Srinagar - 190 001 Jammu & Kashmir	Phone : (0194) 2476828 (O) 9469033913 (M) E-mail : hme123eda@gmail.com	Optical telescopes, Astrophotography, CCD Imaging, Data analysis.
102.	Dr. Mubashir Hamid Mir Govt. Degree College Bandipora W/3 Plan Bandipora Bandipora - 193 502 Jammu & Kashmir	Phone : 9419081217 (O) 7006575530 (M) E-mail : mubiphst@gmail.com	X-ray Astronomy, Galaxy Clustering

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
103.	Dr. Bivudutta Mishra Department of Mathematics BITS- Pilani, Hyderabad Campus Jawahar Nagar Sameerpet Mandal Ranga Reddy Dist. Hyderabad - 500 078 Telangana	Phone : (040) 66303532 (O) 9000607523 (M) E-mail : bivudutta@gmail.com bivudutta@associates.iucaa.in	Dark energy and modified gravity
104.	Dr. Sourav Mitra Department of Physics Surendranath College (Under University of Calcutta) Kolkata - 721 636	Phone: (033) 23543876 8145360606 (M) E-mail: hisourav@gmail.com	Cosmology, Dark matter, Structure formation in the Universe, Intergalactic medium, Galaxy formation and Reionization.
105.	Dr. Kamakshya Prasad Modak Department of Physics Brahmananda Keshab Chandra College 111/2, B. T. Road, Bonhooghly Kolkata - 700 108 <i>Address for correspondence :</i> Postal :- Village - Sukharia (Shibtala) Post Office - Somra, District - Hooghly West Bengal - 712 123	Phone: (033) 25775878 (O) 8420146629 (M) E-mail: kamakshya.modak@gmail.com	My research area is mainly oriented to the study of the theoretical aspects of Dark Matter and its indirect detection. The indirect detection of DM involves detecting the particles (and their subsequent decays) or photons produced due to DM annihilations. Furthermore, there are other astrophysical hints for the existence of DM such as X-ray line from galaxy clusters, excess positron fraction in cosmic rays, self-interaction of DM from bullet cluster observation etc. Therefore, my research mainly focuses on the phenomenology of Dark Matter (DM) which includes the theoretical development for DM candidates from various viable particle physics models, various indirect searches for DM by analysing the possible annihilation products of DM in the astrophysical sites such as Galactic Centre, galaxy clusters as also from extragalactic sources as well as constraining mass and other parameters of DM in the light of astrophysical observations and overall characteristics of DM in the universe. Other than DM physics, I have explored several other aspects of theoretical cosmology and particle physics, physics of neutron star, physics of early universe, neutrino physics, inflationary scenarios and numerical relativity. My expertise is also on computational physics and numerical simulations.
106.	Dr. Saptarshi Mondal Bethune College 24 Madan Pal Lane P.O. - Bhowanipur Kolkata - 700 025 West Bengal	Phone : (033) 22571712 (O) (033) 24543028 (R) 9163697689 (M) E-mail : saptarshi.stat1@gmail.com saptarshi_m@associates.iucaa.in	Globular clusters, Galaxy formation.
107.	Dr. Aditya Sow Mondal Visva-Bharati University Department of Physics Siksha-Bhavana Visva-Bharati Santiniketan - 731 235 West Bengal	Phone : (03463) 261016 (O) 9732249932 (M) E-mail : adityas.mondal@visva-bharati.ac.in	Observational Astronomy. Probing the accretion geometry of neutron star low-mass X-ray binaries using the spectral and timing analysis.
108.	Dr. Soumen Mondal Department of Physics Jadavpur University, Main Campus 188, Raja S.C. Mallick Road Kolkata - 700 032	Phone : 8293004344 (M) E-mail : rkmrcsm@gmail.com soumen@associates.iucaa.in	Equation of state in accretion and wind flows, Gravity wave emission, etc.
109.	Prof. Pradip Mukherjee Department of Physics Barasat Government College 10, K.N.C. Road Barasat Kolkata - 700 124	Phone : (033) 25523365 (O) (033) 25386288 (R) 9433571865 (M) E-mail : mukhpradip@gmail.com pradip@associates.iucaa.in	Cosmological Perturbation Theory, High Energy Physics.

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
110.	Dr. Hemwati Nandan Department of Physics Gurukula Kangri University Haridwar - 249 404	Phone : 8909916277, 9411319626 (M) Email : hemwati.nandan.physics@gmail.com hnandan@associates.iucaa.in	Kinematics of Deformations and Geodesic Flows.
111.	Prof. Dibyendu Nandi Centre of Excellence in Space Sciences India (CESSI) Indian Institute of Science Education and Research, Kolkata Mohanpur - 700 004 West Bengal	Phone : (033) 61360000 (O) 9748606215 (M) Fax : (033) 25873020 E-mail : dnandi@iiserkol.ac.in	Astrophysical Space Sciences.
112.	Dr. Kamal Kanti Nandi Department of Mathematics North Bengal University Darjeeling District Siliguri - 734 013 West Bengal	Phone : (0353) 2581434 (O) (0353) 2581145 (R) Fax : (0353) 2581546 E-mail : kamalnandi1952@yahoo.co.in, kknandi@associates.iucaa.in	General Relativity, Cosmology.
113.	Dr. Rajesh Kumble Nayak Department of Physical Sciences Indian Institute of Science Education and Research (IISER) – Kolkata Mohanpur Campus P.O. Krishi Viswavidyalaya Mohanpur - 741 252 Dist. Nadia, West Bengal	Phone : 3473279137 (O) 9903507977 (M) Email : rajesh@iiserkol.ac. inrajesh.kumble.nayak@gmail.com rajesh@associates.iucaa.in	Gravitational wave data analysis, General theory of Relativity and Relativistic Astrophysics, Cosmology.
114.	Dr. Prince P.R. Assistant Professor of Physics University College M.G. Road, Palayam Thiruvananthapuram - 695 034 Kerala	Phone : (0471) 2475830 (O) (0471) 2438888 (R) 9495211211 (M) E-mail : princerpasad@gmail.com	Solar Terrestrial Physics, Magnetosphere, Solar activity, Ionosphere, Magnetosphere-Ionosphere coupling, etc.
115.	Dr. Barun Kumar Pal Netaji Nagar College For Women 170/13/1, N.S.C. Bose Road Kolkata - 700 092 West Bengal	Phone : (033) 24116711 (O) 8902724762 (M) E-mail : terminatorbarun@gmail.com barunpal@associates.iucaa.in	Cosmological Inflation, Cosmological Perturbations, Cosmic Microwave Background Radiation, Gravitational Lensing, Primordial Gravity Waves.
116.	Dr. Biswajit Pandey Department of Physics Siksha Bhavana Visva-Bharati University Santiniketan - 731 235 Birbhum West Bengal	Phone : (03463) 262751 (O), (03222) 264183 (R) 7602198961 (M) E-mail : biswap@visva-bharati.ac.in biswap@associates.iucaa.in	Cosmology from the topology and morphology of large scale structures in the Universe, Testing homogeneity of the Universe, Redshift space distortions in Galaxy Redshift Surveys, 21 cm Cosmology, Large scale structure formation.
117.	Dr. Sanjay Kumar Pandey Department of Mathematics L.B.S.P.G. College Gonda - 271 003 Uttar Pradesh	Phone : (05262) 232994 (O) (05262) 232631 (R) 9415176625 (M) E-mail : pandey.star@gmail.com spandey@associates.iucaa.in	Cosmology, Large Scale Structure of the Universe, Statistical analysis of Reionization and post- \hat{A} -reionization universe with the help of 21 cm radiation.

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
118.	Dr. Mahadev Baburao Pandge Dayanand Science College Barshi Road Latur - 413 512 Maharashtra	Phone : (02382) 223929 (O) 9881340347 (M) E-mail : mbpandge@gmail.com mbpandge@associates.iucaa.in	AGN Feedback in groups and clusters of galaxies, Cluster Dynamics, Star formation, galaxy formation and evolution.
119.	Dr. Uma Papnoi Department of Physics Kanoria Pg. Mahila Mahavidyalaya Jaipur - 302 004 Rajasthan	Phone: (0141) 2706672 (O) (0141) 2359956 (R) 7838920239 (M) E-mail: uma.papnoi@gmail.com	General Relativity and Cosmology, Black holes, Black hole thermodynamics, Gravitational Lensing, Black hole shadow
120.	Dr. Amit Pathak Department of Physics Banaras Hindu University Varanasi - 221 005 Uttar Pradesh	Phone : (03712) 267007/8/0, 275576 (O) E-mail : amitpah@gmail.com, amitp@associates.iucaa.in	Interstellar molecules and dust.
121.	Dr. Kishor Dnyandeo Patil Principal Vivekanand Science College Vivekanand Nagar, Hiwara Ashram Taluka : Mehkar, Dist. : Buldhana Maharashtra - 443 301.	Phone : 9834701783 (M) 9766022512 (M) E-mail : kishordpatil@yahoo.com, kishor@associates.iucaa.in	General Relativity, Cosmic Censorship.
122.	Prof. Madhav K. Patil School of Physical Sciences Swami Ramanand Teerth Marathwada University Vishnupuri Nanded - 431 606, Maharashtra	Phone : (02462) 229242 (O) 8308298063 (M) Fax : (02462) 229245 E-mail : patil@associates.iucaa.in, mkpsrtm@yahoo.co.in	Astronomy and Astrophysics, Observation.
123.	Dr. Bikash Chandra Paul Department of Physics North Bengal University Darjeeling District Siliguri - 734 013 West Bengal	Phone : (0353) 2776338, 39 (O), (0353) 2526801 (R) 9434539881 (M) Fax : (0353) 2699001 E-mail : bcpaul@associates.iucaa.in, bc_paul@hotmail.com	Astrophysics, Cosmology, General Relativity.
124.	Dr. Surajit Paul Department of Physics Savitribai Phule Pune University Pune - 411 007	Phone : (020) 25672678 9405510226 (M) E-mail : surajit@associates.iucaa.in surajit@physics.unipune.ac.in	Cosmological simulations of large scale structures (LSS), Galaxy cluster formation, Radio observations of LSS.
125.	Dr. Devraj Damaji Pawar R.J. College Ghatkopar Mumbai - 400 086	Phone : 9869458604 (M) E-mail : devrajdp@gmail.com devraj@associates.iucaa.in	X-ray astronomy.
126.	Dr. Ninan Sajeeth Philip Dean and Director Artificial Intelligence Research and Intelligent Systems (AIRIS4D) Thelliyoor - 689 644 Kerala	Phone : (0468) 2660510 (O) (0469) 2660510 (R) E-mail : nspp@associates.iucaa.in ninansajeethphilip@gmail.com	Artificial Intelligence, Cryptography, Biodiversity

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
127.	Dr. Ananta Charan Pradhan Department of Physics and Astronomy National Institute of Technology Rourkela - 769 008 Odisha	Phone : (0661) 2462735 (O) (0661) 2463735 (R) 7894252258 (M) E-mail : acp.phy@gmail.com	
128.	Prof. Anirudh Pradhan Department of Mathematics G.L.A. University Mathura - 281 406 Uttar Pradesh	Phone : (05662) 250761 (O) (05662) 250900 (R) 9415358234/8476847655 (M) E-mail : pradhan.anirudh@gmail.com pradhan@associates.iucaa.in	General Relativity, Cosmology, Dark Energy.
129.	Dr. Ramprasad Prajapati Department of Pure and Applied Physics Guru Ghasidas Vishwavidyalaya Bilaspur - 495 009 Chhattisgarh	Phone : (07752) 260159 (O) 9826699220 (M) E-mail : prajapati.iter@gmail.com	Structure formations, Molecular clouds, Jeans instability, Magnetohydrodynamics, Neutrino-beam-plasma interactions, Supernova explosions, Dense White Dwarf and Neutron stars, Dusty and Quantum Plasmas
130.	Dr. Anisur Rahaman Hooghly Mohsin College Chinsurah, Hooghly Chinsurah - 712 101 West Bengal	Phone : 9434575422 (M) E-mail : manisurn@gmail.com	Field theory and black-hole physics
131.	Dr. Farook Rahaman Department of Mathematics Jadavpur University Kolkata - 700 032	Phone : 9831907279 (M) E-mail : farook_rahaman@yahoo.com rahaman@associates.iucaa.in	GR, Cosmology, Topological Defects, Black Hole, Th. Astrophysics.
132.	Dr. Rakhi R. PG Research Department of Physics N.S.S. College Pandalam, Pathanamthitta Pandalam - 689 501 Kerala	Phone : 9497326945 (O) 8860228530 (M) E-mail : rakhinsscollege@gmail.com	ASTROPHYSICS: STAR FORMATION IN GALAXIES, COSMOLOGY: INFLATION AND DARK ENERGY MODELS, SPACE SCIENCE
133.	Dr. Rajesh S.R. Department of Physics S.D. College Alappuzha Kerala - 688 003	Phone : (0474) 2592877(R) 9400235838 (M) E-mail : sivayaohm@gmail.com rajesh@associates.iucaa.in	Astrophysics and related hydrodynamics.
134.	Dr. Chayan Ranjit Department of Mathematics Egra S.S.B. College Egra, Purba Medinipur - 721 429 West Bengal	Phone : (032) 20244073 (O) 919433927433 (M) E-mail: chayanranjit@gmail.com	Higher Dimensional Cosmological Model; Dark Matter; Dark Energy Models; Modified Gravity; Observational Data Analysis; Some Cosmological Parameters (Deceleration Parameter; State-finder Parameters, Om Diagnostic: Slow-Roll Parameters)
135.	Prof. Shantanu Rastogi Department of Physics D.D.U. Gorakhpur University Gorakhpur - 273 009 Uttar Pradesh	Phone : (0551) 2332398 (O) (0551) 2204517 (R) 9335631805 (M) E-mail : shantanu@associates.iucaa.in, shntn05@gmail.com	Molecular Spectroscopy, Biopolymers and Moleculars of Astrophysical Importance, Infrared Spectroscopy.

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
136.	Dr. C.D. Ravikumar Department of Physics University of Calicut Kozhikode - 673 635 Kerala	Phone : (0494) 2401144 (O), (0466) 2282893 (R) 9447192136 (M) Fax : (0494) 2400269 E-mail : cdravi@gmail.com, ravi@associates.iucaa.in	Galaxies, Observational Astronomy, Extragalactic Astronomy, Quasars and AGNs.
137.	Dr. Saibal Ray Department of Physics Government College of Engineering and Ceramic Technology 73 A.C. Banerjee Lane, Belighata West Bengal - 700 010	Phone : 9163169796 (M) E-mail : saibal@associates.iucaa.in	General Relativity, Astronomy, Astrophysics, Cosmology.
138.	Dr. Biplab Raychaudhuri Department of Physics Visva-Bharati University Santiniketan Dist. Birbhum - 731 235 West Bengal	Phone : (03463) 261016(O) (03561) 256048 (R) 9434464856 (M) E-mail : biplab.raychaudhuri@gmail.co m, biplabphy@visva- bharati.ac.in, bipray@associates.iucaa.in	Sagnac Effect in Curved Spacetime, General Relativity, Astrophysics.
139.	Dr. Prabir Rudra Assistant Professor, Department of Mathematics, Asutosh College 21B/2 Sagar Manna Road Behala Parnashree Kolkata - 700 060 West Bengal	Phone : (033) 24554504 (O) (033) 24062196 (R) 9836724050 (M) E-mail : prudra.math@gmail.com rudra@associates.iucaa.in	Theoretical astrophysics and cosmology.
140.	Dr. Sunil Kumar S. Indian Institute of Science, Education and Research Rami Reddy Nagar Karakambadi Road, C/o. Sree Rama Engineering College (Transit Campus) Tirupati – 517 507	Phone : 8772500449 (M) E-mail : sunil@iisertirupati.ac.in	Major research areas: Laboratory astrophysics/astrochemistry and Molecular Biophysics. I am also interested in the topics below: Physics and chemistry of atomic/molecular ions of astrophysical, biological, and fundamental interest Trapping and cooling of atomic/molecular ions of astrophysical and biological relevance and their spectroscopy Experimental/theoretical investigations of photoabsorption by atoms/molecules and their ions Quantum chemistry of ion-neutral reactions of astrophysical relevance Quantum collisions of neutral and charged particles with atoms/molecules
141.	Dr. Anirban Saha Department of Physics West Bengal State University Berunanpukuria, Malikapur Barasat 24 Parganas (North) - 700 126 West Bengal	Phone : (033) 25241975 (O) (033) 25386288 (R) 9836021172 (M) E-mail : ani_saha09@yahoo.co.in, anirban@associates.iucaa.in	Non-commutative Field Theory, String Theory, Constrained Hamiltonian Dynamics, Classical GR, GW, etc.
142.	Dr. Sanjay Kumar Sahay D-56, BITS, Pilani K.K. Birla Goa Campus NH-17B, By Pass Road Zuari Nagar - 403 726 Goa	Phone : (0832) 2580243 (O) 9850145798 (M) Fax : (0832) 5643017 E-mail : ssahay@goa.bits-pilani.ac.in ssahay@associates.iucaa.in	Gravitational Wave Astronomy.

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
143.	Dr. Sandeep Sahijpal Department of Physics Panjab University Sector 14 Chandigarh - 160 014	Phone : (0172) 2534469 (O) (0172) 2724039 (R) 9815611039 (M) E-mail : sandeep@pu.ac.in , sandeep@associates.iucaa.in	Formation and Evolution of Solar System.
144.	Prof. Gauranga Charan Samanta Associate Professor PG Department of Mathematics Old Campus Fakir Mohan University Vyasa Vihar, Balasore Odisha – 756 019	Phone : 8208103346 (M) E-mail : gauranga81@gmail.com	Theoretical Cosmology: General Relativity, Modified Gravity, Dark Energy and Wormhole Modeling
145.	Dr. Prasant Samantray Cabin B-304H Department of Physics BITS-Pilani Hyderabad Campus Shameerpet, Jawahar Nagar Secunderabad - 500 078 Telangana	Phone : 8878185151 (M) E-mail : prshkumar@gmail.com	AdS/CFT correspondence, string theory, quantum field theory, black holes.
146.	Dr. Biplob Sarkar Assistant Professor Department of Applied Sciences School of Engineering Tezpur University Napaam Assam – 784 028	Phone : 9101614336 (M) E-mail : biplobsiut@gmail.com	Physics of accretion flows around black holes. I explore the theoretical and observational aspects of accretion flow properties around black hole binaries. One of my major research interests is to understand the role of magnetic fields in the accretion flows around black holes. I have worked on the theoretical modelling of various observational aspects from black hole candidates like the accretion disc luminosity and jet kinetic power and how the shocks in accretion flows may help in explaining these observational findings. My other research area is to utilize AstroSat archival data of black hole binaries to examine the detailed spectro-timing characteristics of these sources. I along with my collaborators would identify the various spectral components in the wide band X-ray spectra of the black hole binaries using broad energy coverage in X-rays using joint spectrum from SXT and LAXPC. Also, we would consider about the detailed study of timing behaviour of the sources using advanced timing techniques e.g. power spectral density with the softwares LAXPCSoft and GHATS. We would also attempt to generate the spectrum of the black hole sources observed with AstroSat with the global magnetized accretion solutions for a black hole.
147.	Dr. Saumyadip Samui Department of Physics Presidency University 86/1, College Street Kolkata - 700 073	Phone : 8158074782 (M) E-mail : ssamui@gmail.com , samui@associates.iucaa.in	Astrophysics and Cosmology.
148.	Dr. Sudipta Sarkar Indian Institute of Technology Gandhinagar Gujarat- 382 355	Phone : 7819859734 (O) 9328474222 (R) 9925967563 (M) E-mail : sudiptas@iitgn.ac.in	Gravitation, Black hole thermodynamics, modified gravity theories.

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
149.	<p>Dr. Tamal Sarkar HECRRC University of North Bengal</p> <p>Postal Address: Scientific Research Officer Grade-II High Energy & Cosmic Ray Research Centre (HECRRC) Raja Ram Mohunpur, P.O. North Bengal University Siliguri - 734 013 West Bengal</p>	<p>Phone (0353) 2776358 (O) 918280528250 (M)</p> <p>E-mail: tsarkar@nbu.ac.in</p>	<p>General Theory of Relativity, Black hole physics, Black hole accretion, and gravitational waves</p>
150.	<p>Dr. Anjan Ananda Sen Centre for Theoretical Physics Jamia Millia Islamia Maulana Mohammed Ali Jauhar Marg Jamia Nagar New Delhi - 110 025</p>	<p>Phone : (011) 26984830 (O) (0120) 4131305 (R) 9818024543 (M)</p> <p>Fax : (011) 26981753</p> <p>E-mail : anjsen@gmail.com, anjan@associates.iucaa.in</p>	<p>Dark Energy and Late Time Acceleration of the Universe, Brane World Cosmology, Loop Quantum Cosmology.</p>
151.	<p>Prof. Asoke Kumar Sen Department of Physics Assam University P.B. No. 63 Silchar - 788 011 Assam.</p>	<p>Phone : (03842) 270843 (O) (03842) 236979 (R) 9435070349 (M)</p> <p>Fax : (03842) 270802 / 270806</p> <p>E-mail : aksen@associates.iucaa.in, asokesen@yahoo.com,</p>	<p>Comets, Solar System, Astronomical Observations.</p>
152.	<p>Dr. Somasri Sen Department of Physics Jamia Millia Islamia New Delhi - 110 025</p>	<p>Phone : (0120) 4131305 (R) 9717050331 (M)</p> <p>E-mail : somasri.sen@gmail.com ssen@jmi.ac.in</p>	<p>Cosmology, Gravitation, Astroparticle Physics.</p>
153.	<p>Dr. Anand Sengupta Department of Physics IIT Gandhinagar VGEC Complex, Chandkheda Visat- Gandhinagar Highway Ahmedabad - 382 424 Gujarat</p>	<p>Phone : (079) 23952432 (O)</p> <p>E-mail : asengupta@iitgn.ac.in</p>	<p>Fast interpolation of inspiral template bank for coherent searches for gravitational waves, etc.</p>
154.	<p>Prof. T.R. Seshadri Department of Physics and Astrophysics University of Delhi New Delhi - 110 007</p>	<p>Phone : (011) 27667061 (O) (011) 27315329 (R) 9971954775 (M)</p> <p>Fax : (011) 27667061</p> <p>E-mail : trs@associates.iucaa.in, seshadri.tr@gmail.com</p>	<p>CMBR, Cosmology.</p>
155.	<p>Dr. Ranjan Sharma Department of Physics Cooch Behar Panchanan Barma University, Vivekananda Street Cooch Behar - 736 101 West Bengal</p>	<p>Phone : (03582) 230218 (O) (03561) 255050 (R) 9832096288 (M)</p> <p>Fax : (03582) 224011</p> <p>E-mail : rsharma.jpg@gmail.com rsharma@associates.iucaa.in</p>	<p>Relativistic Astrophysics.</p>

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
156.	Dr. Rathin Sharma Assistant Professor Department of Physics Rabindranath Tagore University Hojai - 782 435 Assam	Phone : 9435537925 (M) E-mail: sharma.rathin@gmail.com	X-Ray data analysis and understanding the accretion disc physics around the SMBH of AGN. I am particularly interested in long term variability of highly variable Narrow Line Seyfert 1 (NLS1) galaxy. I have been studying the hot ISM of the Milky Way also.
157.	Dr. Umesh Kumar Sharma GLA University Mathura - 281 406 Uttar Pradesh	Phone : 7055510538 (O) 9719431820 (M) E-mail : sharma.umesh@gla.ac.in	Dark Energy Modified gravity theory General Relativity and cosmology Wormhole
158.	Dr. Alkendra Singh UGC-Assistant Professor Department of Physics Institute of Science Banaras Hindu University Varanasi - 221 005	Phone : 8765476544 (M) E-mail: alkendra@gmail.com alkendra@associates.iucaa.in	Solar and Plasma Astrophysics, Magneto- hydrodynamic, Space- based observations of the Sun.
159.	Professor Gyan Prakash Singh Department of Mathematics Visvesvaraya National Institute of Technology Nagpur - 440 010 Maharashtra	Phone : (0712) 2801356 (O) (0712) 2801386 (R) 9423684625 (M) E-mail : gpsingh@math.vnit.ac.in gps.math2015@gmail.com	General Relativity and Cosmology.
160.	Prof. Harinder Pal Singh Department of Physics and Astrophysics University of Delhi New Delhi - 110 007	Phone : (011) 27667793 (O) (011) 27567366 (R) 9810248042 (M) Fax : (011) 27667061 E-mail : singh@associates.iucaa.in, hpsingh@physics.du.ac.in	Stellar Magnetic Fields, Stellar Evolution.
161.	Dr. Heisnam Shanjit Singh Department of Physics Rajiv Gandhi University Rono Hills, Papum Pare - 791 112 Arunachal Pradesh	Phone : (0360) 2278572 (O) 7308260563 (M) E-mail : heisnam.singh@rgu.ac.in heisnam@associates.iucaa.in	Black holes and Cosmology.
162.	Dr. Monika Sinha Department of Physics, Indian Institute of Technology Jodhpur Old Residency Road Ratanada Jodhpur - 342 011 Rajasthan	Phone : (0291) 2801604 (O) 7568875770 (M) E-mail : ms@iitj.ac.in monika@associates.iucaa.in	Compact objects.
163.	Dr. Surendra Nadh Somala Indian Institute of Technology Hyderabad - 502 285 Telangana	Phone : (040) 23018457 (O) E-mail : surendra@iith.ac.in surendra@associates.iucaa.in	Engineering seismology, computational geophysics, gravity perturbations due to seismic wavefield.

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
164.	Prof. Vikram Soni Emeritus Professor Centre for Theoretical Physics Jamia Millia Islamia New Delhi - 110 025	Phone : (011) 26141453 (O) 9899821135 (M) E-mail : vsoni.physics@gmail.com	Topological Structures, Quark matter, QCD, etc.
165.	Dr. K. Sriram Department of Astronomy Osmania University Hyderabad - 500 007	Phone : (040) 7203562 (O) 7702106240 (M) E-mail : edusyssriram@gmail.com	Accretion processes in Compact Objects, ULX's & AGN's, Astrophysical Jets, Studying contact binary systems in clusters.
166.	Prof. L. Sriramkumar Department of Physics Indian Institute of Technology Chennai - 600 036 Tamil Nadu	Phone : (044) 22574854 (O) (044) 22576854 (R) E-mail : sriram@physics.iitm.ac.in	Inflationary cosmology and the cosmic microwave background, Bouncing scenarios as an alternative to inflation, Aspects of black hole physics, Quantum field theory in classical backgrounds
167.	Dr. Parijat Thakur Department of Pure and Applied Physics Guru Ghasidas Central University Bilaspur - 495 009 Chattisgarh	Phone : (07752) 260007 (O) (0788) 4017785 (R) 7587096051 (M) Fax : (07752) 260148 E-mail : parijatthakur@yahoo.com parijat@associates.iucaa.in	Investigating Transiting Exoplanets, X-Ray Studies of Galactic Binaries, Galactic Structure and Dynamics, Structure and Evolution of Barred Galaxies
168.	Dr. Arun Varma Thampan St. Joseph's College P.O. Box 27094 36 Lalbagh Road Bangalore - 560 027	Phone : (080) 22274079 (O) (080) 25834800 (R) 9449835496 (M) E-mail : athampan@gmail.com arun@associates.iucaa.in	General Relativity, Modelling of observational data.
169.	Dr. Sunil Kumar Tripathy Department of Physics Indira Gandhi Institute of Technology Sarang Dhenkanal Dhenkanal - 759 146 Odisha	Phone : (06768) 267025 (O) 8280295995 (M) E-mail : tripathy_sunil@rediffmail.com sktripathy@associates.iucaa.in	Cosmology, Relativity and Gravitation: Late time cosmic acceleration- Dark energy models, Alternative theories of gravity, Nuclear Physics: Equation of state of Nuclear Matter, Neutron stars and Proto Neutron star.
170.	Dr. Pranjal Trivedi Department of Physics Sri Venkateswara College University of Delhi New Delhi - 110 021 <i>Address for correspondence :</i> D-203, Vidisha Apartments 79 I.P. Extension New Delhi - 110 092	Phone : 9818505955 (M) E-mail : pranjal.tri@gmail.com, pranjal@associates.iucaa.in	Cosmic Microwave Background Radiation, Non-Gaussianity, Cosmological Magnetic Fields.

No.	Name and Address	Phone, Fax, and E-mail	Research Interests
171.	Dr. Vinutha Tummala Department of Applied Mathematics Andhra University Visakhapatnam - 530 003 Andhra Pradesh	Phone : (0891) 2844524 (O) (0891) 4800126 (R) 9490235319 (M) E-mail : vinuthatummala@gmail.com vinutha@associates.iucaa.in	Einstein's theory of gravitation, scalar tensor theories of gravitation and dark energy cosmological models in order to explain the expanding nature of the Universe and other properties.
172.	Dr. Rashmi Uniyal Government Degree College Tehri Garhwal Narendranagar - 249 175 Uttarakhand	Phone : 8006733214 (M) E-mail : rashmiuniyal001@gmail.com uniyal@associates.iucaa.in	Classical Gravity and related phenomenon, geodesic structure, orbit structure and kinematics of geodesic flows around given spacetime backgrounds, weak and strong gravitational lensing and kinematics of deformation of null geodesics around various compact objects along with accretion phenomenon associated with these objects.
173.	Dr. Sanil Unnikrishnan Department of Physics St. Stephen's College University Enclave New Delhi - 110 007	Phone : (011) 22503058 (R) 8860153808 (M) E-mail : sanil.unni@gmail.com	Cosmology in general, Dark Energy and Dark Matter Inflation and Early Universe Cosmology, Cosmological Perturbation Theory, Modified theory of gravity as an alternative to dark energy.
174.	Dr. Sudhaker Upadhyay Department of Physics K.L.S. College Nawada (A Constituent Unit of Magadh University Bodh Gaya) Bihar - 805 110	Phone: 8090976139 (O) 7477780999 (M) E-mail :sudhakerupadhyay@gmail.com	Galaxy clustering and structure formation of universe
175.	Prof. Anisul Ain Usmani Department of Physics Aligarh Muslim University Aligarh - 202 002 Uttar Pradesh	Phone : (0571) 2701001 (O) (0571) 2721829 (R) 9412275671 (M) Fax : (0571) 2701001 E-mail : anisul@associates.iucaa.in, anisul.usmani@gmail.com	Many Body Theories, Physics of Strangeness.
176.	Dr. Nilkanth Dattatray Vagshette Department of Physics & Electronics Maharashtra Udaygiri Mahavidyalaya Udgir Maharashtra – 413 517	Phone : (02385) 256052 (O) 9975909979 (M) E-mail : nilkanth1384@gmail.com	1) AGN feedback mechanism in ICM/IGM 2) Shocks and cold fronts in clusters 3) X-ray binary stars in early type galaxies 4) Dust properties of early type galaxies
177.	Dr. Deepak Vaid National Institute of Technology Surathkal RM 217, Science Block NITK Surathkal Mangalore - 575 025 Karnataka	Phone : (0824) 2473283 (O) (0824) 2474283 (R) : 9901314121 (M) E-mail : dvoid79@gmail.com dvoid@associates.iucaa.in	Quantum Gravity.

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178.	Dr. Bhargav Pradeep Vaidya Indian Institute of Technology Indore Onyx 118, Silver Springs Phase 2 Bypass Road, Pathar Mundla Indore - 452 020 Madhya Pradesh	Phone: 7324306538 (O) 731494005 (R) 9998983564 (M) E-mail : bvaidya@iiti.ac.in	Computational Fluid Dynamics: Hydrodynamics, Magneto-hydrodynamics & Radiative transfer Theoretical star formation: Accretion disk physics, Jets and Outflow formation and associated instabilities Particle Acceleration in AGN jets : Modeling Non-Thermal spectral signatures Inter-Stellar Medium : Shock- Cloud Interaction, Collapse of molecular cores, Shock induced chemistry. Astrophysical Code Development: MPI Parallel Programming, Visualization and Data Analysis tools with Python.
179.	Prof. Murli Manohar Verma Department of Physics University of Lucknow Lucknow - 226 007 Uttar Pradesh	Phone : (0522) 2740410 (O) (0522) 2740140 (R) 9415725291 (M) E-mail : sunilmmv@yahoo.com murli@associates.iucaa.inn	Cosmology: Dynamics and diagnostics of the Interacting dark energy models especially quintessence and tachyonic field models.
180.	Dr. Jaswant Kumar Yadav Department of Physics Central University of Haryana Jant-Pali, Mahendergarh Haryana - 123 029	Phone : 7696951306 (M) E-mail : jaswantkyadav@gmail.com jaswant@associates.iucaa.in	Formation and Evolution of galaxies, Feedback Processes in galaxy formation, Chemical etc.
181.	Dr. Lalthakimi Zadeng Department of Physics Mizoram University Aizawl - 796 004	Phone : (0389) 2330522 (O) 9436152904 (M) E-mail : kimizadeng@gmail.com	Spectral time studies of X-ray Binaries