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<th>No.</th>
<th>Name and Address</th>
<th>Phone, Fax, and E-mail</th>
<th>Research Interests</th>
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</thead>
</table>
| 1.  | **Dr. Sheelu Abraham**<br>Assistant Professor<br>Department of Physics<br>Marthoma College<br>Chungathara, Malappuram<br>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**<br>Department of Physics<br>Tezpur University<br>Napaam<br>Tezpur -784 028<br>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**<br>Chair, Physics and Dean, Academics<br>Indian Institute of Science Education and Research (IISER)<br>Transit Campus<br>Sree Rama Engineering College<br>Karkambadi Road, Mangalam<br>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**<br>Department of Physics<br>School of Sciences Education and Training Building<br>Maulana Azad National Urdu University, Gachibowli<br>Hyderabad - 500 032<br>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. |
<table>
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<th>No.</th>
<th>Name and Address</th>
<th>Phone, Fax, and E-mail</th>
<th>Research Interests</th>
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</thead>
</table>
| 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.  | Prof. Shyamal Kumar Banerjee  
Professor and Dean  
School of Basic Science & Research  
Sharda University  
32, 34 Knowledge Park-III  
Greater Noida – 201 310 | Phone : 9760818302 (M)  
E-mail : skb@associates.iucaa.in  
shyamal.kumar@sharda.ac.in  
shyamalbanerjee50@gmail.com | 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 : prasadscp@gmail.com  
pbsu@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 | Phone : (033) 26300126 (O) 8116754967 (M) Email: piyali.bhar90@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 Graviton 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 | Phone : (011) 25302415 (O) 9013534105 (R) 9868818880 (M) Email : 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 | Phone : (0490) 2332319 (O) 8876660109 (M) Email: pbharali@gmail.com | I have studied two different ray transients using NuSTAR and Swift/XRT observation of the sources (MAXI J1820+070 and MAXI J1852+274). I have analyzed the data from the recent observation of two Galactic black hole candidates GRS 1716-300 and MAXI J1658-375, 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 jet 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 fireball like model, may be observed to be broadened if the system undergoes a rapid temperature evolution. I have constructed a toy model for GRBs, with best possible set of parameters, to obtained maximum obtainable width of the spectrum.

15. | Prof. Naseer Iqbal Bhat | Phone : (0194) 22420078, (O) 2415631 (R) 9419079191 (M) Fax : (0194) 2421357 Email: dni_phtr@kashmiruniversity.ac.in | Observational Astronomy, Binary Stars, Variable Stars

16. | Dr. Srijit Bhattacharjee | Phone : (0532) 2922541 (O) 2922291 (R) Email: 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 space Time evolution of black hole and wormhole, on the quantum state of the universe. We could show that for any higher curvature gravity theories, the Jacobson-Myers entropy for the dual theory is also in agreement with the classical entropy. We have also studied the no-hair theorem, which is a consequence of the fact that the black hole solution is the only stationary and stable solution of the equations of motion. We have focused on issues of Black hole and its Thermodynamics. We could show that for any higher curvature gravity theories, the Jacobson-Myers entropy for the dual theory is also in agreement with the classical entropy. We have also studied the no-hair theorem, which is a consequence of the fact that the black hole solution is the only stationary and stable solution of the equations of motion. We have focused on issues of Black hole and wormhole.

17. | Dr. Debbijoy Bhattacharya | Phone : (820) 2923571 (O) 9845090185 (M) Fax : (0820) 2570062 Email: debbijoy@gmail.com, debbijoy@associates.iucaa.in | General Relativity, Astrophysics, Cosmic Strings

18. | Dr. Subhra Bhattacharya | Phone : 8274000563 (R) 9830403955 (M) Email: 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 | Phone : (04936) 203382 (O) 246869 (R) 9447546217 (M) Email: 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 processing jets from a merging system of nine galaxies (Zwicky Nonet) at the centre of the galaxy cluster Abell 407. We have completed the multi-wavelength studies of five GRBs using GMRT observations and data from various optical, infrared and X-ray sky surveys. We are continuing the work with more samples of GRBs.
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<th>Research Interests</th>
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<tbody>
<tr>
<td>20.</td>
<td>Dr. Ritabrata Biswas</td>
<td>Phone: 9474344036 (R) 7407206393 (M)</td>
<td>Dark energy, Quantum cosmology.</td>
</tr>
<tr>
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<td></td>
<td>The University of Burdwan</td>
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<td>Golapbag, Burdwan</td>
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<td>West Bengal - 713 104</td>
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<td>21.</td>
<td>Dr. Debasis Borah</td>
<td>Phone: 7896705801 (M)</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>Department of Physics</td>
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<td>Indian Institute of Technology</td>
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<td>Guwahati, Assam - 781 039</td>
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<td>22.</td>
<td>Dr. Koushik Chakraborty</td>
<td>Phone: (033) 26802085 (O) (033) 25520674 (R) 9874134091 (M)</td>
<td>General Theory of Relativity.</td>
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<td>West Bengal Educational Service</td>
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<td>West Bengal - 713 104</td>
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<td>23.</td>
<td>Prof. Subenoy Chakraborty</td>
<td>Phone: (033) 24146717 (O) (033) 26845638 (R) 9433356784 (M)</td>
<td>Mathematical Physics, Quantum Mechanics, Relativity, Cosmology.</td>
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<tr>
<td></td>
<td>Department of Mathematics</td>
<td>E-mail: <a href="mailto:subenoy@associates.iucaa.in">subenoy@associates.iucaa.in</a>, <a href="mailto:subenoyc@yahoo.co.in">subenoyc@yahoo.co.in</a>,</td>
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<td>Jadavpur University</td>
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<td>Kolkata - 700 032</td>
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<td>24.</td>
<td>Dr. Nand Kumar Chakradhari</td>
<td>Phone: (0771) 2262864 (O) : 9753872241 (M)</td>
<td>Supernovae, Chemically Peculiar Stars, Variable stars, Galaxies.</td>
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<td></td>
<td>SOS in Physics and Astrophysics</td>
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<td>Pandit Ravishankar Shukla University</td>
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<td>Raipur - 492 010</td>
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<td>25.</td>
<td>Prof. Hum Chand</td>
<td>Phone: 9760154111 (R) 6396937743 (M)</td>
<td>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 NL5y1s/BLSy1s (5) AGN variability properties on diverse time scale (vi) Weak emission line QSOs (6) AGN outflow and BAL-QSOs (7)Photometric reverberation mapping and black hole mass measurement of AGN.</td>
</tr>
<tr>
<td></td>
<td>Department of Physics and Astronomical Sciences</td>
<td>E-mail: <a href="mailto:humchand@gmail.com">humchand@gmail.com</a></td>
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<td>Central University of Himachal Pradesh</td>
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<td>Temporary Academic Block</td>
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<td>Shahpur, Kangra</td>
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<td>Himachal Pradesh - 176 206</td>
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<td>26.</td>
<td>Dr. Ramesh Chandra</td>
<td>Phone: (05942) 237450 (O) (05942) 231497 (R) 9690681836 (M)</td>
<td>Multi-wavelength study of Solar flares, Solar eruptive events.</td>
</tr>
<tr>
<td></td>
<td>Department of Physics</td>
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<td></td>
<td>DSB Campus</td>
<td>E-mail: <a href="mailto:rchandra.tnt@gmail.com">rchandra.tnt@gmail.com</a></td>
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<td>Kumaun University</td>
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<td>Uttarakhand</td>
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<td>27.</td>
<td>Prof. Suresh Chandra</td>
<td>Phone: (0120) 4392468 (O) 9818005663 (M)</td>
<td>Solar Physics, Interstellar Molecular Clouds.</td>
</tr>
<tr>
<td></td>
<td>Amity Centre for Astronomy &amp; Astrophysics</td>
<td>E-mail: <a href="mailto:sch@associates.iucaa.in">sch@associates.iucaa.in</a>, <a href="mailto:schandra2@amity.edu">schandra2@amity.edu</a></td>
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<td>Amity Institute of Applied Sciences</td>
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<td>Amity University Campus</td>
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<td>Sector - 125, Noida - 201 313</td>
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</tbody>
</table>
| 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  
surajcha@gmail.com  
 | | 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  
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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  
Address for correspondence :  
38F New Ballygunge Road, Ground Floor (Adjacent to Loknath Cable Office), Kolkata – 700 039.  
Phone : (033) 2455605 (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)  
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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,  
 | | Neutrinos in A&A and Cosmology. |
| 35. | **Prof. Bhag Chand Chauhan**  
Central University of Himachal Pradesh (CUHP)  
Dharamshala, Dist. Kangra  
Himachal Pradesh - 176 215  
Phone : (01892) 237285 (O)  
9418472694 (M)  
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| 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 morphological effects of galaxies on intergalactic medium (3) Study of Extra-galactic Objects (4) Study of dwarf galaxies (5) Study of quasars and active galactic nuclei. I am also interested in exploring 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. |
| 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. |
| 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, himsekharks@yahoo.co.in | Polarization due to Light Scattering, Cometary, Interplanetary and Interstellar Dusts, etc. |
| 39. | Dr. Shyam Das  
Department of Physics  
Malda College  
Malda, Rabindra Avenue  
Rathbari, Malda  
West Bengal – 732 101. | Phone : 9832500823 (M)  
E-mail : dhashym321@gmail.com  
shyam_das@associates.iucaa.in | 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 observatories like Chandra, S. K. I. O. G. (SKIGO), is one of my research interest. I am interested to explore 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 ast-ho 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. |
| 40. | Dr. Sudipta Das  
Assistant Professor in Physics  
Department of Physics  
Visva-Bharati  
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)  
9434373765 (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. |
<table>
<thead>
<tr>
<th>No.</th>
<th>Name and Address</th>
<th>Phone, Fax, and E-mail</th>
<th>Research Interests</th>
</tr>
</thead>
</table>
| 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 : shantanu@iith.ac.in  
shtnt05@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 Senorita Devi**  
Department of Physics  
Assam University  
Silchar - 788 011  
Assam | Phone : (03842) 270843 (O)  
8011543868 (M)  
E-mail : senorita.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 : (080) 22961484 (O)  
9448673274 / 9481300346 (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 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 hypakuntakde-devine collaboration, I am looking into the simulation and physics aspects including supernova neutrino. 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 : drvkdmami@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 < 1014 cm, Edelson et al, 1996) and generate enormous 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 levels mean that these lines are emitted by ionic species with ionization potential (IP) ≤ 20 eV (H I, Mg II, C II, Fe II, C IV) and with high IP > 40 eV (C IV, 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, Blazar 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 |
<table>
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<tr>
<th>No.</th>
<th>Name and Address</th>
<th>Phone, Fax, and E-mail</th>
<th>Research Interests</th>
</tr>
</thead>
</table>
| 52  | Dr. Jibitesh Dutta  
Department of Basic Sciences and Social Sciences  
School of Technology  
North-Eastern Hill University  
Mawkyrnoh-Umshing Mawlai  
Shillong - 793 022  
Meghalaya | Phone: (0364) 2723659 (O)  
(0364) 2231147 (R)  
9863021745 (M)  
E-mail: jdutta29@gmail.com  
jdutta@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  
sdutta@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.€ • |
<table>
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<tr>
<th>No.</th>
<th>Name and Address</th>
<th>Phone, Fax, and E-mail</th>
<th>Research Interests</th>
</tr>
</thead>
</table>
| 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)  
9435594888 (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 : strayguha@yahoo.com,  
guha@associates.iucaa.in | General Relativity and Cosmology. |
<table>
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<tr>
<th>No.</th>
<th>Name and Address</th>
<th>Phone, Fax, and E-mail</th>
<th>Research Interests</th>
</tr>
</thead>
</table>
| 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  
Address for correspondence :  
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. |
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<tr>
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<th>Name and Address</th>
<th>Phone, Fax, and E-mail</th>
<th>Research Interests</th>
</tr>
</thead>
<tbody>
<tr>
<td>73.</td>
<td><strong>Dr. Deepak Jain</strong>&lt;br&gt;Department of Physics&lt;br&gt;Deen Dayal Upadhyaya College (University of Delhi)&lt;br&gt;Sector-3, Dwarka&lt;br&gt;New Delhi - 110 078</td>
<td>Phone : (011) 25099381 (O)&lt;br&gt;Fax : (011) 25099380&lt;br&gt;(011) 27865102 (R)&lt;br&gt;E-mail : <a href="mailto:djain@ddu.du.ac.in">djain@ddu.du.ac.in</a>, <a href="mailto:djain@associates.iucaa.in">djain@associates.iucaa.in</a></td>
<td>Cosmology and Gravitational Lensing.</td>
</tr>
<tr>
<td>74.</td>
<td><strong>Dr. Rajeev Kumar Jain</strong>&lt;br&gt;Department of Physics&lt;br&gt;Indian Institute of Science&lt;br&gt;Bangalore - 560 012&lt;br&gt;Karnataka</td>
<td>Phone: (080) 22933618 (O)&lt;br&gt;E-mail: <a href="mailto:rkjain@iisc.ac.in">rkjain@iisc.ac.in</a></td>
<td>Theoretical cosmology, Inflation and alternatives, Cosmic Microwave Background, Primordial magnetic fields, Non-gaussianities, Effective field theory of gravity, Modified gravity, Dark energy</td>
</tr>
<tr>
<td>75.</td>
<td><strong>Dr. Charles Jose</strong>&lt;br&gt;Department of Physics&lt;br&gt;Cochin University of Science and Technology (CUSAT)&lt;br&gt;South Kalamassery, Kalamassery&lt;br&gt;Kochi – 682 022&lt;br&gt;Kerala</td>
<td>Phone : (0484) 2577290 (O)&lt;br&gt;8606434507 (M)&lt;br&gt;E-mail : <a href="mailto:charlesmanimala@gmail.com">charlesmanimala@gmail.com</a></td>
<td>Cosmology, large scale structures in the universe, Probes of fundamental physics using cosmology, etc.</td>
</tr>
<tr>
<td>76.</td>
<td><strong>Dr. Jessy Jose</strong>&lt;br&gt;IISER Tirupati,&lt;br&gt;Karakambadi Road&lt;br&gt;Mangalam P.O. - 517 507&lt;br&gt;Kerala</td>
<td>Phone : 9945402801 (M)&lt;br&gt;E-mail: <a href="mailto:jessyvjose1@gmail.com">jessyvjose1@gmail.com</a></td>
<td>Observational Astronomy, Star formation, HII regions, Feedback mechanisms, Brown dwarfs and free-floating planetary mass objects in the solar neighbourhood</td>
</tr>
<tr>
<td>77.</td>
<td><strong>Dr. Minu Joy</strong>&lt;br&gt;Department of Physics&lt;br&gt;Alphonsa College&lt;br&gt;Arunavaram P.O. - 686 574&lt;br&gt;Pala, Kerala</td>
<td>Phone : (04822) 213033 (R)&lt;br&gt;9747930507 (M)&lt;br&gt;E-mail : <a href="mailto:minujoy@gmail.com">minujoy@gmail.com</a>&lt;br&gt;<a href="mailto:minu@associates.iucaa.in">minu@associates.iucaa.in</a></td>
<td>Cosmology and Quantum Gravity, Cosmological Perturbation.</td>
</tr>
<tr>
<td>78.</td>
<td><strong>Dr. Jeena K.</strong>&lt;br&gt;Department of Physics&lt;br&gt;Providence Women's College&lt;br&gt;Malaparamba (P.O)&lt;br&gt;Calicut - 673 009&lt;br&gt;Kerala</td>
<td>Phone: (0495) 2371696&lt;br&gt;9495658547 / 9495658547&lt;br&gt;E-mail : <a href="mailto:jeenakarunakaran@gmail.com">jeenakarunakaran@gmail.com</a></td>
<td>Multi Wavelength Study Of Ultra-luminous X-Ray Sources(Ulx), AGNs, Blazars, Spectral And Timing Studies Of AGNs, X-Ray Data Analysis</td>
</tr>
<tr>
<td>79.</td>
<td><strong>Dr. Sathya Narayanan K.</strong>&lt;br&gt;Department of Physics&lt;br&gt;The Cochin College&lt;br&gt;Mattancherry&lt;br&gt;Ernakulam - 682 002&lt;br&gt;Kerala</td>
<td>Phone: (0484) 2224954 (R)&lt;br&gt;9447217985 (M)&lt;br&gt;E-mail : <a href="mailto:sathyanarayank@gmail.com">sathyanarayank@gmail.com</a></td>
<td>Diffuse UV astronomy, Dust reddening studies in molecular clouds, Galaxy evolution and formation</td>
</tr>
<tr>
<td>80.</td>
<td><strong>Dr. Md. Mehedi Kalam</strong>&lt;br&gt;Department of Physics&lt;br&gt;Aliah University&lt;br&gt;IIA/27, New Town&lt;br&gt;Kolkata - 700 156</td>
<td>Phone : (033) 27062271(O)&lt;br&gt;9433487900 (R)&lt;br&gt;9836363707 (M)&lt;br&gt;E-mail : <a href="mailto:mehedikalam@yahoo.co.in">mehedikalam@yahoo.co.in</a>&lt;br&gt;<a href="mailto:kalam@associates.iucaa.in">kalam@associates.iucaa.in</a></td>
<td>Relativity, Cosmology, Topological Defects, Wormhole and Blackhole Physics.</td>
</tr>
<tr>
<td>No.</td>
<td>Name and Address</td>
<td>Phone, Fax, and E-mail</td>
<td>Research Interests</td>
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</tr>
</tbody>
</table>
| 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: rkishor_math@curaj.ac.in  
| 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,  
nagendrakgk@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**<br>Assistant Professor<br>P.G. Department of Physics<br>Patna University<br>Patna - 800 005 | **Phone**: 9413674416 (O)<br>8789705192 (M)<br><br>E-mail: sainisanjay35@gmail.com | Solar Physics, Coronal Heating, Physics of Magnetic Reconnection, Magnetohydrodynamics, Computational Physics

89. | **Prof. Suresh Kumar**<br>Department of Mathematics<br>Indira Gandhi University<br>Meerpur<br>Haryana – 122 502 | **Phone**: 7725905640 (M)<br>E-mail: sukuyd@gmail.com<br>sureshk@associates.iucaa.in | Dark Energy Cosmology, Exact Solutions, etc.

90. | **Dr. Honey M.**<br>S.A.R.B.T.M. Government College<br>Muchukunnu P.O.<br>Via Koyilandy<br>Kozhikode – 673 307<br>Kerala | **Phone**: (0496) 2690257<br>8549932365 (M)<br><br>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 (HISBGs). 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**<br>Central University of Tamil Nadu<br>Department of Physics<br>Neelakudi Campus<br>Thiruvarur - 610 005<br>Tamil Nadu | **Phone**: (04366) 277228(O)<br>(04366) 277311 (R)<br><br>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**<br>Indian Institute of Science, Education and Research<br>Knowledge City, Sector 81<br>SAS Nagar<br>Manauli - PO<br>Mohali - 140 306 | **Phone**: (0172) 224012138 (O)<br>9653792580 (M)<br><br>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**<br>Assistant Professor<br>National Institute of Science, Education and Research<br>Room No. 03, Ground Floor<br>Library Building<br>Khurda – 752 050<br>Odisha. | **Phone**: 6742494482 (O)<br>9330369269 (M)<br><br>E-mail: liton@niser.ac.in | Astrochemistry, star and planet formation using infrared, radio and sub-mm astronomy, planetary and exoplanetary atmospheres
<table>
<thead>
<tr>
<th>No.</th>
<th>Name and Address</th>
<th>Phone, Fax, and E-mail</th>
<th>Research Interests</th>
</tr>
</thead>
</table>
| 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  
mamtad@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  
titusmathew@gmail.com  
titus@cusat.ac.in | Bulk viscous matter and current acceleration of the universe. |
| 99. | Dr. Ram Ajor 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 Degree College  
Tangmarg  
Kashmir – 193 401 | Phone : 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 |
<table>
<thead>
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<th>No.</th>
<th>Name and Address</th>
<th>Phone, Fax, and E-mail</th>
<th>Research Interests</th>
</tr>
</thead>
</table>
| 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 | 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)  
916397689 (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: mukhp@pradip@gmail.com  
pradip@associates.iucaa.in | Cosmological Perturbation Theory, High Energy Physics.  |
<table>
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<th>No.</th>
<th>Name and Address</th>
<th>Phone, Fax, and E-mail</th>
<th>Research Interests</th>
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</thead>
<tbody>
<tr>
<td>110.</td>
<td>Dr. Hemwati Nandan&lt;br&gt;Department of Physics&lt;br&gt;Gurukula Kangri University&lt;br&gt;Haridwar - 249 404</td>
<td>Phone : 8909916277, 9411319626 (M)&lt;br&gt;Email : <a href="mailto:hemwati.nandan.physics@gmail.com">hemwati.nandan.physics@gmail.com</a>&lt;br&gt;<a href="mailto:hnandan@associates.iucaa.in">hnandan@associates.iucaa.in</a></td>
<td>Kinematics of Deformations and Geodesic Flows.</td>
</tr>
<tr>
<td>111.</td>
<td>Prof. Dibyendu Nandi&lt;br&gt;Centre of Excellence in Space Sciences India (CESSI)&lt;br&gt;Indian Institute of Science Education and Research, Kolkata&lt;br&gt;Mohanpur - 700 004&lt;br&gt;West Bengal</td>
<td>Phone : (033) 61360000 (O)&lt;br&gt;9748606215 (M)&lt;br&gt;Fax : (033) 25873020&lt;br&gt;E-mail : <a href="mailto:dnandi@iiserkol.ac.in">dnandi@iiserkol.ac.in</a></td>
<td>Astrophysical Space Sciences.</td>
</tr>
<tr>
<td>112.</td>
<td>Dr. Kamal Kanti Nandi&lt;br&gt;Department of Mathematics&lt;br&gt;North Bengal University&lt;br&gt;Darjeeling District&lt;br&gt;Siliguri - 734 013&lt;br&gt;West Bengal</td>
<td>Phone : (0353) 2581434 (O)&lt;br&gt;(0353) 2581145 (R)&lt;br&gt;Fax : (0353) 2581546&lt;br&gt;E-mail : <a href="mailto:kamalnandi1952@yahoo.co.in">kamalnandi1952@yahoo.co.in</a>,&lt;br&gt;<a href="mailto:kknandi@associates.iucaa.in">kknandi@associates.iucaa.in</a></td>
<td>General Relativity, Cosmology.</td>
</tr>
<tr>
<td>113.</td>
<td>Dr. Rajesh Kumble Nayak&lt;br&gt;Department of Physical Sciences&lt;br&gt;Indian Institute of Science Education and Research (IISER) – Kolkata&lt;br&gt;Mohanpur Campus&lt;br&gt;P.O. Krishi Viswavidyalaya&lt;br&gt;Mohanpur - 741 252&lt;br&gt;Dist. Nadia, West Bengal</td>
<td>Phone : 3473279137 (O)&lt;br&gt;9903507977 (M)&lt;br&gt;Email : <a href="mailto:rajesh@iiserkol.ac.in">rajesh@iiserkol.ac.in</a>&lt;br&gt;<a href="mailto:inrajesh.kumble.nayak@gmail.com">inrajesh.kumble.nayak@gmail.com</a>&lt;br&gt;<a href="mailto:rajesh@associates.iucaa.in">rajesh@associates.iucaa.in</a></td>
<td>Gravitational wave data analysis, General theory of Relativity and Relativistic Astrophysics, Cosmology.</td>
</tr>
<tr>
<td>114.</td>
<td>Dr. Prince P.R.&lt;br&gt;Assistant Professor of Physics&lt;br&gt;University College&lt;br&gt;M.G. Road, Palayam&lt;br&gt;Thiruvananthapuram - 695 034&lt;br&gt;Kerala</td>
<td>Phone : (0471) 2475830 (O)&lt;br&gt;(0471) 2438888 (R)&lt;br&gt;9495219111 (M)&lt;br&gt;E-mail : <a href="mailto:princerprasad@gmail.com">princerprasad@gmail.com</a></td>
<td>Solar Terrestrial Physics, Magnetosphere, Solar activity, Ionosphere, Magnetosphere-Ionosphere coupling, etc.</td>
</tr>
<tr>
<td>115.</td>
<td>Dr. Barun Kumar Pal&lt;br&gt;Netaji Nagar College For Women&lt;br&gt;170/13/1, N.S.C. Bose Road&lt;br&gt;Kolkata - 700 092&lt;br&gt;West Bengal</td>
<td>Phone : (033) 24116711 (O)&lt;br&gt;8902724672 (M)&lt;br&gt;E-mail : <a href="mailto:terminatorbarun@gmail.com">terminatorbarun@gmail.com</a>&lt;br&gt;<a href="mailto:barunpal@associates.iucaa.in">barunpal@associates.iucaa.in</a></td>
<td>Cosmological Inflation, Cosmological Perturbations, Cosmic Microwave Background Radiation, Gravitational Lensing, Primordial Gravity Waves.</td>
</tr>
<tr>
<td>116.</td>
<td>Dr. Biswajit Pandey&lt;br&gt;Department of Physics&lt;br&gt;Siksha Bhavana&lt;br&gt;Visva-Bharati University&lt;br&gt;Santiniketan - 731 235&lt;br&gt;Birbhum&lt;br&gt;West Bengal</td>
<td>Phone : (03463) 262751 (O),&lt;br&gt;(03222) 264183 (R)&lt;br&gt;7602198961 (M)&lt;br&gt;E-mail : <a href="mailto:biswap@visva-bharati.ac.in">biswap@visva-bharati.ac.in</a>&lt;br&gt;<a href="mailto:biswap@associates.iucaa.in">biswap@associates.iucaa.in</a></td>
<td>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.</td>
</tr>
<tr>
<td>117.</td>
<td>Dr. Sanjay Kumar Pandey&lt;br&gt;Department of Mathematics&lt;br&gt;L.B.S.P.G. College&lt;br&gt;Gonda - 271 003&lt;br&gt;Uttar Pradesh</td>
<td>Phone : (05262) 232994 (O)&lt;br&gt;(05262) 232631 (R)&lt;br&gt;9415176625 (M)&lt;br&gt;E-mail : <a href="mailto:pandey.star@gmail.com">pandey.star@gmail.com</a>&lt;br&gt;<a href="mailto:spandey@associates.iucaa.in">spandey@associates.iucaa.in</a></td>
<td>Cosmology, Large Scale Structure of the Universe, Statistical analysis of Reionization and post-Reionization universe with the help of 21 cm radiation.</td>
</tr>
<tr>
<td>No.</td>
<td>Name and Address</td>
<td>Phone, Fax, and E-mail</td>
<td>Research Interests</td>
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<tr>
<td>118.</td>
<td><strong>Dr. Mahadev Baburao Pandge</strong>&lt;br&gt;Dayanand Science College&lt;br&gt;Barshi Road&lt;br&gt;Latur - 413 512&lt;br&gt;Maharashtra</td>
<td>Phone : (02382) 223929 (O)&lt;br&gt;9881340347 (M)&lt;br&gt;E-mail : <a href="mailto:mbpandge@gmail.com">mbpandge@gmail.com</a>&lt;br&gt;<a href="mailto:mbpandge@associates.iucaa.in">mbpandge@associates.iucaa.in</a></td>
<td>AGN Feedback in groups and clusters of galaxies, Cluster Dynamics, Star formation, galaxy formation and evolution.</td>
</tr>
<tr>
<td>119.</td>
<td><strong>Dr. Uma Papnoi</strong>&lt;br&gt;Department of Physics&lt;br&gt;Kanoria Pg. Mahila Mahavidyalaya&lt;br&gt;Jaipur - 302 004&lt;br&gt;Rajasthan</td>
<td>Phone: (0141) 2706672 (O)&lt;br&gt;(0141) 2359956 (R)&lt;br&gt;7838920239 (M)&lt;br&gt;E-mail: <a href="mailto:uma.papnoi@gmail.com">uma.papnoi@gmail.com</a></td>
<td>General Relativity and Cosmology, Black holes, Black hole thermodynamics, Gravitational Lensing, Black hole shadow</td>
</tr>
<tr>
<td>120.</td>
<td><strong>Dr. Amit Pathak</strong>&lt;br&gt;Department of Physics&lt;br&gt;Banaras Hindu University&lt;br&gt;Varanasi - 221 005&lt;br&gt;Uttar Pradesh</td>
<td>Phone : (03712) 267007/8/0, 275576 (O)&lt;br&gt;E-mail : <a href="mailto:amitpah@gmail.com">amitpah@gmail.com</a>,&lt;br&gt;<a href="mailto:amitp@associates.iucaa.in">amitp@associates.iucaa.in</a></td>
<td>Interstellar molecules and dust.</td>
</tr>
<tr>
<td>121.</td>
<td><strong>Dr. Kishor Dnyandeo Patil</strong>&lt;br&gt;Principal&lt;br&gt;Vivekanand Science College&lt;br&gt;Vivekanand Nagar, Hiwara Ashram&lt;br&gt;Taluka : Mehkar, Dist. : Buldhana&lt;br&gt;Maharashtra - 443 301.</td>
<td>Phone : 9834701783 (M)&lt;br&gt;9766022512 (M)&lt;br&gt;E-mail : <a href="mailto:kishordpatil@yahoo.com">kishordpatil@yahoo.com</a>,&lt;br&gt;<a href="mailto:kishor@associates.iucaa.in">kishor@associates.iucaa.in</a></td>
<td>General Relativity, Cosmic Censorship.</td>
</tr>
<tr>
<td>122.</td>
<td><strong>Prof. Madhav K. Patil</strong>&lt;br&gt;School of Physical Sciences&lt;br&gt;Swami Ramanand Teerth&lt;br&gt;Marathwada University&lt;br&gt;Vishnupuri&lt;br&gt;Nanded - 431 606, Maharashtra</td>
<td>Phone : (02462) 229242 (O)&lt;br&gt;8308298063 (M)&lt;br&gt;Fax : (02462) 229245&lt;br&gt;E-mail : <a href="mailto:patil@associates.iucaa.in">patil@associates.iucaa.in</a>,&lt;br&gt;<a href="mailto:mkpsrtm@yahoo.co.in">mkpsrtm@yahoo.co.in</a></td>
<td>Astronomy and Astrophysics, Observation.</td>
</tr>
<tr>
<td>123.</td>
<td><strong>Dr. Bikash Chandra Paul</strong>&lt;br&gt;Department of Physics&lt;br&gt;North Bengal University&lt;br&gt;Darjeeling District&lt;br&gt;Siliguri - 734 013&lt;br&gt;West Bengal</td>
<td>Phone : (0353) 2776338, 39 (O),&lt;br&gt;(0353) 2526801 (R)&lt;br&gt;9434539881 (M)&lt;br&gt;Fax : (0353) 2699001&lt;br&gt;E-mail : <a href="mailto:bcpaul@associates.iucaa.in">bcpaul@associates.iucaa.in</a>,&lt;br&gt;<a href="mailto:bc_paul@hotmail.com">bc_paul@hotmail.com</a></td>
<td>Astrophysics, Cosmology, General Relativity.</td>
</tr>
<tr>
<td>124.</td>
<td><strong>Dr. Surajit Paul</strong>&lt;br&gt;Assistant Professor&lt;br&gt;Department of Physics&lt;br&gt;Savitribai Phule Pune University&lt;br&gt;Pune - 411 007</td>
<td>Phone : (020) 25672678&lt;br&gt;9405510226 (M)&lt;br&gt;E-mail : <a href="mailto:surajit@associates.iucaa.in">surajit@associates.iucaa.in</a>,&lt;br&gt;<a href="mailto:surajit@physics.unipune.ac.in">surajit@physics.unipune.ac.in</a></td>
<td>Cosmological simulations of large scale structures (LSS), Galaxy cluster formation, Radio observations of LSS.</td>
</tr>
<tr>
<td>125.</td>
<td><strong>Dr. Devraj Damaji Pawar</strong>&lt;br&gt;R.J. College&lt;br&gt;Ghatkopar&lt;br&gt;Mumbai - 400 086</td>
<td>Phone : 9869458604 (M)&lt;br&gt;E-mail : <a href="mailto:devrajd@gmail.com">devrajd@gmail.com</a>&lt;br&gt;<a href="mailto:devraj@associates.iucaa.in">devraj@associates.iucaa.in</a></td>
<td>X-ray astronomy.</td>
</tr>
<tr>
<td>126.</td>
<td><strong>Dr. Ninan Sajeeth Philip</strong>&lt;br&gt;Dean and Director&lt;br&gt;Artificial Intelligence Research and Intelligent Systems (AIRIS4D)&lt;br&gt;Thelliyoor - 689 644&lt;br&gt;Kerala</td>
<td>Phone : (0468) 2660510 (O)&lt;br&gt;(0469) 2660510 (R)&lt;br&gt;E-mail : <a href="mailto:nspp@associates.iucaa.in">nspp@associates.iucaa.in</a>&lt;br&gt;<a href="mailto:ninansajeethphilip@gmail.com">ninansajeethphilip@gmail.com</a></td>
<td>Artificial Intelligence, Cryptography, Biodiversity</td>
</tr>
<tr>
<td>No.</td>
<td>Name and Address</td>
<td>Phone, Fax, and E-mail</td>
<td>Research Interests</td>
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<tr>
<td>127.</td>
<td><strong>Dr. Ananta Charan Pradhan</strong>&lt;br&gt;Department of Physics and Astronomy National Institute of Technology Rourkela - 769 008 Odisha</td>
<td>Phone: (0661) 2462735 (O)&lt;br&gt;(0661) 2463735 (R)&lt;br&gt;7894252258 (M)&lt;br&gt;E-mail: <a href="mailto:acp.phy@gmail.com">acp.phy@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>128.</td>
<td><strong>Prof. Anirudh Pradhan</strong>&lt;br&gt;Department of Mathematics&lt;br&gt;G.L.A. University&lt;br&gt;Mathura - 281 406&lt;br&gt;Uttar Pradesh</td>
<td>Phone: (05662) 250761 (O)&lt;br&gt;(05662) 250900 (R)&lt;br&gt;941538234/8476847655 (M)&lt;br&gt;E-mail: <a href="mailto:pradhan.anirudh@gmail.com">pradhan.anirudh@gmail.com</a>&lt;br&gt;<a href="mailto:pradhan@associates.iucaa.in">pradhan@associates.iucaa.in</a></td>
<td>General Relativity, Cosmology, Dark Energy.</td>
</tr>
<tr>
<td>129.</td>
<td><strong>Dr. Ram Prasad Prajapati</strong>&lt;br&gt;Associate Professor&lt;br&gt;School of Physical Sciences&lt;br&gt;Jawaharlal Nehru University&lt;br&gt;New Delhi – 110 067</td>
<td>Phone: (011) 26738964 (O)&lt;br&gt;9826699220 (M)&lt;br&gt;E-mail: <a href="mailto:prajapati.iter@gmail.com">prajapati.iter@gmail.com</a></td>
<td>Structure formations, Molecular clouds, Jeans instability, Magnetohydrodynamics, Neutrino-beam-plasma interactions, Supernova explosions, Dense White Dwarf and Neutron stars, Dusty and Quantum Plasmas</td>
</tr>
<tr>
<td>130.</td>
<td><strong>Dr. Anisur Rahaman</strong>&lt;br&gt;Hooghly Mohsin College&lt;br&gt;Chinsurah, Hooghly&lt;br&gt;Chinsurah - 712 101&lt;br&gt;West Bengal</td>
<td>Phone: 9434575422 (M)&lt;br&gt;E-mail: <a href="mailto:manisurn@gmail.com">manisurn@gmail.com</a></td>
<td>Field theory and black-hole physics</td>
</tr>
<tr>
<td>131.</td>
<td><strong>Dr. Farook Rahaman</strong>&lt;br&gt;Department of Mathematics&lt;br&gt;Jadavpur University&lt;br&gt;Kolkata - 700 032</td>
<td>Phone: 9831907279 (M)&lt;br&gt;E-mail: <a href="mailto:farook_rahaman@yahoo.com">farook_rahaman@yahoo.com</a>&lt;br&gt;<a href="mailto:rahaman@associates.iucaa.in">rahaman@associates.iucaa.in</a></td>
<td>GR, Cosmology, Topological Defects, Black Hole, Th. Astrophysics.</td>
</tr>
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<td>132.</td>
<td><strong>Dr. Rakhi R.</strong>&lt;br&gt;PG Research&lt;br&gt;Department of Physics&lt;br&gt;N.S.S. College&lt;br&gt;Pandalam, Pathanamthitta&lt;br&gt;Pandalam - 689 501&lt;br&gt;Kerala</td>
<td>Phone: 9497326945 (O)&lt;br&gt;8860228530 (M)&lt;br&gt;E-mail: <a href="mailto:rakhinsscollege@gmail.com">rakhinsscollege@gmail.com</a></td>
<td>ASTROPHYSICS: STAR FORMATION IN GALAXIES, COSMOLOGY: INFLATION AND DARK ENERGY MODELS, SPACE SCIENCE</td>
</tr>
<tr>
<td>133.</td>
<td><strong>Dr. Rajesh S.R.</strong>&lt;br&gt;Department of Physics&lt;br&gt;S.D. College&lt;br&gt;Alappuzha&lt;br&gt;Kerala - 688 003</td>
<td>Phone: (0474) 2592877(R)&lt;br&gt;9400235838 (M)&lt;br&gt;E-mail: <a href="mailto:sivayaohm@gmail.com">sivayaohm@gmail.com</a>&lt;br&gt;<a href="mailto:rajesh@associates.iucaa.in">rajesh@associates.iucaa.in</a></td>
<td>Astrophysics and related hydrodynamics.</td>
</tr>
<tr>
<td>134.</td>
<td><strong>Dr. Chayan Ranjit</strong>&lt;br&gt;Department of Mathematics&lt;br&gt;Egra S.S.B. College&lt;br&gt;Egra, Purba&lt;br&gt;Medinipur - 721 429&lt;br&gt;West Bengal</td>
<td>Phone: (032) 20244073 (O)&lt;br&gt;91943927433 (M)&lt;br&gt;E-mail: <a href="mailto:chayanranjit@gmail.com">chayanranjit@gmail.com</a></td>
<td>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)</td>
</tr>
<tr>
<td>135.</td>
<td><strong>Prof. Shantanu Rastogi</strong>&lt;br&gt;Department of Physics&lt;br&gt;D.D.U. Gorakhpur University&lt;br&gt;Gorakhpur - 273 009&lt;br&gt;Uttar Pradesh</td>
<td>Phone: (0551) 2332398 (O)&lt;br&gt;(0551) 2204517 (R)&lt;br&gt;9335631805 (M)&lt;br&gt;E-mail: <a href="mailto:shantanu@associates.iucaa.in">shantanu@associates.iucaa.in</a>, <a href="mailto:shntn05@gmail.com">shntn05@gmail.com</a></td>
<td>Molecular Spectroscopy, Biopolymers and Molecules of Astrophysical Importance, Infrared Spectroscopy.</td>
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<tr>
<td>No.</td>
<td>Name and Address</td>
<td>Phone, Fax, and E-mail</td>
<td>Research Interests</td>
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</table>
| 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.com,  
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 Parnasree  
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,  
sunil.phys@gmail.com | 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 photodesorption 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. |
<table>
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<th>No.</th>
<th>Name and Address</th>
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<th>Research Interests</th>
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<tr>
<td>143.</td>
<td><strong>Dr. Sandeep Sahijpal</strong>&lt;br&gt;Department of Physics&lt;br&gt;Panjab University&lt;br&gt;Sector 14&lt;br&gt;Chandigarh - 160 014</td>
<td>Phone : (0172) 2534469 (O)&lt;br&gt;(0172) 2724039 (R)&lt;br&gt;9815611039 (M)&lt;br&gt;E-mail : <a href="mailto:sandeep@pu.ac.in">sandeep@pu.ac.in</a>,&lt;br&gt;<a href="mailto:sandeep@associates.iucaa.in">sandeep@associates.iucaa.in</a></td>
<td>Formation and Evolution of Solar System.</td>
</tr>
<tr>
<td>144.</td>
<td><strong>Prof. Gauranga Charan Samanta</strong>&lt;br&gt;Associate Professor&lt;br&gt;PG Department of Mathematics&lt;br&gt;Old Campus&lt;br&gt;Fakir Mohan University&lt;br&gt;Vyasa Vihar, Balasore&lt;br&gt;Odisha – 756 019</td>
<td>Phone : 8208103346 (M)&lt;br&gt;E-mail : <a href="mailto:gauranga81@gmail.com">gauranga81@gmail.com</a></td>
<td>Theoretical Cosmology: General Relativity, Modified Gravity, Dark Energy and Wormhole Modeling</td>
</tr>
<tr>
<td>145.</td>
<td><strong>Dr. Prasant Samantray</strong>&lt;br&gt;Cabin B-304H&lt;br&gt;Department of Physics&lt;br&gt;BITS-Pilani Hyderabad Campus&lt;br&gt;Shameerpet, Jawahar Nagar&lt;br&gt;Secunderabad - 500 078&lt;br&gt;Telangana</td>
<td>Phone : 8878185151 (M)&lt;br&gt;E-mail : <a href="mailto:prshkumar@gmail.com">prshkumar@gmail.com</a></td>
<td>AdS/CFT correspondence, string theory, quantum field theory, black holes.</td>
</tr>
<tr>
<td>146.</td>
<td><strong>Dr. Biplob Sarkar</strong>&lt;br&gt;Assistant Professor&lt;br&gt;Department of Applied Sciences&lt;br&gt;School of Engineering&lt;br&gt;Tezpur University&lt;br&gt;Napaam&lt;br&gt;Assam – 784 028</td>
<td>Phone : 9101614336 (M)&lt;br&gt;E-mail : <a href="mailto:biplobsiut@gmail.com">biplobsiut@gmail.com</a></td>
<td>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.</td>
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<tr>
<td>147.</td>
<td><strong>Dr. Saumyadip Samui</strong>&lt;br&gt;Department of Physics&lt;br&gt;Presidency University&lt;br&gt;86/1, College Street&lt;br&gt;Kolkata - 700 073</td>
<td>Phone : 8158074782 (M)&lt;br&gt;E-mail : <a href="mailto:ssamui@gmail.com">ssamui@gmail.com</a>,&lt;br&gt;<a href="mailto:samui@associates.iucaa.in">samui@associates.iucaa.in</a></td>
<td>Astrophysics and Cosmology.</td>
</tr>
<tr>
<td>148.</td>
<td><strong>Dr. Sudipta Sarkar</strong>&lt;br&gt;Indian Institute of Technology&lt;br&gt;Gandhinagar&lt;br&gt;Gujarat- 382 355</td>
<td>Phone : 7819859734 (O)&lt;br&gt;9328474222 (R)&lt;br&gt;9925967563 (M)&lt;br&gt;E-mail : <a href="mailto:sudiptas@iitgn.ac.in">sudiptas@iitgn.ac.in</a></td>
<td>Gravitation, Black hole thermodynamics, modified gravity theories.</td>
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<td>No.</td>
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<td>149.</td>
<td>Dr. Tamal Sarkar</td>
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<td></td>
<td>University of North Bengal</td>
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<td>General Theory of Relativity, Black hole physics, Black hole accretion, and gravitational waves</td>
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<td>Scientific Research Officer Grade-II</td>
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<td>High Energy &amp; Cosmic Ray Research Centre (HECRRC)</td>
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<td>150.</td>
<td>Dr. Anjan Ananda Sen</td>
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<td>Centre for Theoretical Physics</td>
<td>9181024543 (M)</td>
<td>Dark Energy and Late Time Acceleration of the Universe, Brane World Cosmology, Loop Quantum Cosmology.</td>
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<td>151.</td>
<td>Prof. Asoke Kumar Sen</td>
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<td>Department of Physics</td>
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<td>Comets, Solar System, Astronomical Observations.</td>
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<td>Assam University</td>
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<td>Assam.</td>
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<td>152.</td>
<td>Dr. Somasri Sen</td>
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<td>Department of Physics</td>
<td>9717050331 (M)</td>
<td>Cosmology, Gravitation, Astroparticle Physics.</td>
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<td>153.</td>
<td>Dr. Anand Sengupta</td>
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<td>Department of Physics</td>
<td>E-mail: <a href="mailto:asengupta@iitgn.ac.in">asengupta@iitgn.ac.in</a></td>
<td>Fast interpolation of inspiral template bank for coherent searches for gravitational waves, etc.</td>
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<td>VGEC Complex, Chandkheda Visat-Gandhinagar Highway</td>
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<td>Ahmedabad - 382 424</td>
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<td>Gujarat</td>
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<td>154.</td>
<td>Prof. T.R. Seshadri</td>
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<td>Department of Physics and Astrophysics</td>
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<td>CMBR, Cosmology.</td>
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<td>University of Delhi</td>
<td>9971954775 (M)</td>
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<td>New Delhi - 110 007</td>
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<td>155.</td>
<td>Dr. Ranjan Sharma</td>
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<td>Relativistic Astrophysics.</td>
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<td>Cooch Behar Panchanan Barma University,</td>
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<td>Vivekananda Street</td>
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<td>Cooch Behar - 736 101</td>
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<td>West Bengal</td>
<td>E-mail: <a href="mailto:rsharma.jpg@gmail.com">rsharma.jpg@gmail.com</a>, <a href="mailto:rsharma@associates.iucaa.in">rsharma@associates.iucaa.in</a></td>
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<td>Phone, Fax, and E-mail</td>
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<td>156.</td>
<td><strong>Dr. Rathin Sharma</strong>&lt;br&gt;Assistant Professor&lt;br&gt;Department of Physics&lt;br&gt;Rabindranath Tagore University&lt;br&gt;Hojai - 782 435&lt;br&gt;Assam</td>
<td>Phone : 9435537925 (M) 9719431820 (M)&lt;br&gt;E-mail: <a href="mailto:sharma.rathin@gmail.com">sharma.rathin@gmail.com</a></td>
<td>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.</td>
</tr>
<tr>
<td>157.</td>
<td><strong>Dr. Umesh Kumar Sharma</strong>&lt;br&gt;GLA University&lt;br&gt;Mathura - 281 406&lt;br&gt;Uttar Pradesh&lt;br&gt;Phone : 7055510538 (O) 9719431820 (M)&lt;br&gt;E-mail: <a href="mailto:sharma.umesh@glau.in">sharma.umesh@glau.in</a></td>
<td></td>
<td>Dark Energy Modified gravity theory General Relativity and cosmology Wormhole</td>
</tr>
<tr>
<td>158.</td>
<td><strong>Dr. Alkendra Singh</strong>&lt;br&gt;UGC-Assistant Professor&lt;br&gt;Department of Physics&lt;br&gt;Institute of Science&lt;br&gt;Banaras Hindu University&lt;br&gt;Varanasi - 221 005</td>
<td>Phone : 8765476544 (M)&lt;br&gt;E-mail: <a href="mailto:alkendra@gmail.com">alkendra@gmail.com</a> <a href="mailto:alkendra@associates.iucaa.in">alkendra@associates.iucaa.in</a></td>
<td>Solar and Plasma Astrophysics, Magnetohydrodynamic, Space-based observations of the Sun.</td>
</tr>
<tr>
<td>159.</td>
<td><strong>Professor Gyan Prakash Singh</strong>&lt;br&gt;Department of Mathematics&lt;br&gt;Visvesvaraya National Institute of Technology&lt;br&gt;Nagpur - 440 010&lt;br&gt;Maharashtra</td>
<td>Phone : (0712) 2801356 (O) 2801386 (R) 9423684625 (M)&lt;br&gt;E-mail: <a href="mailto:gps@vniit.ac.in">gps@vniit.ac.in</a> <a href="mailto:gps.math2015@gmail.com">gps.math2015@gmail.com</a></td>
<td>General Relativity and Cosmology.</td>
</tr>
<tr>
<td>160.</td>
<td><strong>Prof. Harinder Pal Singh</strong>&lt;br&gt;Department of Physics and Astrophysics&lt;br&gt;University of Delhi&lt;br&gt;New Delhi - 110 007</td>
<td>Phone : (011) 27667793 (O) 27567366 (R) 9810248042 (M)&lt;br&gt;Fax : (011) 27667061&lt;br&gt;E-mail: <a href="mailto:singh@associates.iucaa.in">singh@associates.iucaa.in</a>, <a href="mailto:hpsingh@physics.du.ac.in">hpsingh@physics.du.ac.in</a></td>
<td>Stellar Magnetic Fields, Stellar Evolution.</td>
</tr>
<tr>
<td>161.</td>
<td><strong>Dr. Heisnam Shanjit Singh</strong>&lt;br&gt;Department of Physics&lt;br&gt;Rajiv Gandhi University&lt;br&gt;Rono Hills, Papum Pare - 791 112&lt;br&gt;Arunachal Pradesh</td>
<td>Phone : (0360) 2278572 (O) 7308260563 (M)&lt;br&gt;E-mail: <a href="mailto:heisnam.singh@rgu.ac.in">heisnam.singh@rgu.ac.in</a> <a href="mailto:heisnam@associates.iucaa.in">heisnam@associates.iucaa.in</a></td>
<td>Black holes and Cosmology.</td>
</tr>
<tr>
<td>162.</td>
<td><strong>Dr. Monika Sinha</strong>&lt;br&gt;Department of Physics, Indian Institute of Technology&lt;br&gt;Jodhpur&lt;br&gt;Old Residency Road Ratanada&lt;br&gt;Jodhpur - 342 011&lt;br&gt;Rajasthan</td>
<td>Phone : (0291) 2801604 (O) 7568875770 (M)&lt;br&gt;E-mail: <a href="mailto:ms@iitj.ac.in">ms@iitj.ac.in</a> <a href="mailto:monika@associates.iucaa.in">monika@associates.iucaa.in</a></td>
<td>Compact objects.</td>
</tr>
<tr>
<td>163.</td>
<td><strong>Dr. Surendra Nadh Somala</strong>&lt;br&gt;Indian Institute of Technology&lt;br&gt;Hyderabad - 502 285&lt;br&gt;Telangana</td>
<td>Phone : (040) 23018457 (O)&lt;br&gt;E-mail: <a href="mailto:surendra@iith.ac.in">surendra@iith.ac.in</a> <a href="mailto:surendra@associates.iucaa.in">surendra@associates.iucaa.in</a></td>
<td>Engineering seismology, computational geophysics, gravity perturbations due to seismic wavefield.</td>
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<tr>
<td>No.</td>
<td>Name and Address</td>
<td>Phone, Fax, and E-mail</td>
<td>Research Interests</td>
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</tbody>
</table>
| 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  
prijat@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  
Address for correspondence :  
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. |
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<th>No.</th>
<th>Name and Address</th>
<th>Phone, Fax, and E-mail</th>
<th>Research Interests</th>
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</table>
| 171.  | **Dr. Vinutha Tummala**                    | 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**                      | 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**                 | 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**                  | Phone: 8090976139 (O)  
7477780999 (M)  
E-mail:sudhakerupadhyay@gmail.com | Galaxy clustering and structure formation of universe                                                                                                           |
| 175.  | **Prof. Anisul Ain Usmani**                | 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**       | 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**                        | Phone: (0824) 2473283 (O)  
(0824) 2474283 (R)  
9901314121 (M)  
E-mail: dvaid79@gmail.com, dvaid@associates.iucaa.in | Quantum Gravity.                                                                                                                                             |
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<th>Research Interests</th>
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</table>
| 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, Magnetohydrodynamics & 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  
University of Lucknow  
Lucknow - 226 007  
Uttar Pradesh | Phone: (0522) 2740410 (O)  
(0522) 2740140 (R)  
9415725291 (M)  
E-mail: sunilmmv@yahoo.com  
murl@associates.iucaa.in | Cosmology: Dynamics and diagnostics of the Interacting dark energy models especially quintessence and tachyonic field models. |
| 180.| Dr. Jaswant Kumar Yadav  
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  
Mizoram University  
Aizawl - 796 004 | Phone: (0389) 2330522 (O)  
9436152904 (M)  
E-mail: kimizadeng@gmail.com | Spectral time studies of X-ray Binaries |