

S.No.	Project Title	Pi [institute]	Co-pi [institute]	Project Duration	Total Proposed Cost (in INR)
1	Topological Insulator Based Spin Device for Highly Efficient Memory and Neuromorphic Applications	<p><b>1. Prof. Brajesh kumar kaushik</b></p> <p>Indian institute of technology , roorkee</p> <p>Electronics and Communication Engineering, Uttarakhand (247667)</p>	<p><b>1. Prof. Chandrasekhar murapaka</b></p> <p>Indian institute of technology hyderabad</p> <p>Department of Materials Science and Metallurgical Engineering, Kandi Telangana</p> <p><b>2. Prof. Debanjan bhowmik</b></p> <p>Indian institute of technology delhi</p> <p>Department of Electrical Engineering, IIT Delhi. Hauz Khas, New Delhi-110 016</p> <p><b>3. Prof. Parasharam maruti shirage</b></p> <p>Indian institute of technology indore</p> <p>Department of Metallurgy Engineering and Materials Science,Indore Madhya Pradesh</p>	3 Years and 0 Months	35417843
2	3D Topological Insulators from bulk Crystals to Nanodevices STM and High-Pressure Magnetotransport Studies	<p><b>1. Dr. Manoj kumar</b></p> <p>Malaviya national institute of technology,</p> <p>Department of Physics, MNIT Parlour Jaipur Rajasthan (302017)</p>	<p><b>1. Dr. Anirban dutta</b></p> <p>Malaviya national institute of technology jaipur</p> <p>Department of Physics, MNIT Jaipur,Rajasthan</p> <p><b>2. Dr. Kamendra awasthi</b></p> <p>Malaviya national institute of technology, jaipur</p> <p>Department of Physics, MNIT Jaipur, JLN Marg, Jaipur Jaipur Rajasthan</p>	3 Years and 0 Months	7020000
3	Emerging quantum phases in	<p><b>1. Dr. Goutam sheet</b></p>	<p><b>1. Dr. Jino george</b></p>	5 Years and 0	83200000

	nano-engineered topological quantum materials	<p>Indian institute of science education and research mohali punjab (140306)</p> <p><b>2. Dr. Yogesh singh</b></p> <p>INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH mohalipunjab (140306)</p>	<p>Indian institute of science education and research mohali punjab (140306)</p> <p><b>2. Dr. Sanjeev kumar</b></p> <p>Indian institute of science education and research</p> <p><b>3. Dr. Ujjal k gautam</b></p> <p>Indian institute of science education and research mohali punjab (140306)</p>	Months	
4	Sewage sludge waste and drought cause Prosopis Juliflora tree to new graphe...	<p><b>1. Dr. S BRILLIANS REVIN</b></p> <p>Francis xavier engineering college Tirunelveli vannarapettai tamilnadu (627003)</p>	<p><b>1. Dr. Gopikumar</b></p> <p>Scad college of engineering and technology Tirunelveli tamilnadu (627011)</p> <p><b>2. Dr. Muthukumaran N</b></p> <p>Francis xavier engineering college Vannarpettai tirunelveli tamilnadu (629502)</p>	3 Years and 0 Months	4554000
5	Thematic Projects in Frontier of Nano ST TPF-Nano on Exploring topological effects in oxide crystals and thin films	<p><b>1. Dr. Chadrashekhar yadav</b></p> <p>Indian institute of technology mandi Kamand himachal pradesh (175005)</p>	<p><b>1. Prof. Arghya taraphder</b></p> <p>Indian institute of technoloyp kharagpur Department of Physics. IIT Kharagpur, Kharagpur West Bengal 721302)</p> <p><b>2. Dr. Eike fabian schwier</b></p> <p>Indian institute of technology mandi School of Basic Sciences, IIT Mandi, Kamand, Mandi Himachal Pradesh (175005)</p> <p><b>3. Dr. Jayita nayak</b></p> <p>Indian institute of technology kanpur Department of Physics, IIT Kanpur, Kanpur Kanpur Uttar Pradesh (208016)</p>	3 Years and 0 Months	109176000

			<p><b>4. Dr. Pradeep kumar</b> Indian institute of technology, mandi, himachal pradesh , india</p> <p><b>5. Prof. Ramesh chandra</b> Institute Instrumentation Centre, Indian Institute of Technology Roorkee, Roorkee Uttarakhand Roorkee Uttarakhand (247667)</p> <p><b>6. Dr. Tulika maitra</b> Indian institute of technology roorkee Department of Physics, IIT Roorkee, Uttarakhand (247667)</p> <p><b>7. Dr. Vivek kumar malik</b> Indian institute of technology roorkee Department of Physics, IIT Roorkee,Uttarakhand (247667)</p>		
6	Quantum Engineering of Excitons in van der Waals Heterostructures	<p><b>1. Prof. Prasana kumar saho</b> IIT Kharagpur Kharagpur West Bengal (721301)</p>	<p><b>1. Prof. Joysurya basu</b> IIT (BHU) Varanasi Department of Metallurgical Engineering, Indian Institute of Technology (BHU) Varanasi Uttar Pradesh (221005)</p> <p><b>2. Prof. Sajal dhara</b> IIT Kharagpur Department of Physics, IIT Kharagpur Kharagpur West Bengal (721302)</p>	3 Years and 0 Months	19998000
7	Spiking Neural Network based on Nanoionics-Enabled Memristive Devices for Neuromorphic Computing	<p><b>1. Dr. Brajesh rawat</b> Indian institute of technology roopur roopur punjab (140001)</p>	<p><b>1. Prof. Roy paily</b> 103, Department of Electronics &amp; Electrical Engineering , IIT Guwahati, Guwahati Assam (781039)</p> <p><b>2. Dr. Sunita mishra</b></p>	5 Years and 0 Months	56188800

			Csir central scientific instruments organisation <b>3. Dr. Vinayak hande</b> lit ropar Rupnagar punjab (140001)		
8	Design and development of twisted light based technology for nano processing of materials	<b>1. Dr. Neha sardana</b> Indian Institute of Technology Ropar, Dept. Of Metallurgical and Materials Engg., Roopnagar Ropar Punjab (140001)	<b>1. Prof. Harpreet singh</b> lit ropar main campus, satish dhawan block, bada phool, ropar ropar punjab (140001)  <b>2. Dr. Vishwa pal</b> lit ropar	3 Years and 0 Months	27316400
9	Realisation of Quantum Gates using chiral Majorana Fermions towards Topological Quantum Computation.	<b>1. Dr. Chiranjib mitra</b> Indian institute of science education and research kolkata  Dept. Of Physical Sciences, IISER Kolkata, Mohanpur West Bengal (741246)	<b>1. Dr. Yogesh singh</b> Indian institute of science education and research  liser , mohali punjab (140306)	5 Years and 0 Months	78670000
10	Topological phases induced novel transport and magnetic behavior in low dimensional quantum materials	<b>1. Dr. Ashim kumar pramanik</b> Jawaharlal nehru university Aruna asaf ali marg new delhi delhi (110067)  <b>2. Dr. Sanjay singh</b>  Indian institute of technology bhu varanasi  <b>3. Dr. Sudipta kanungo</b> Indian institute of technology goa	Na	3 Years and 0 Months	30847696
11	Engineered Noble Metal Nanoclusters on Two Dimensional (@D) Matrices for Random Lasing Applications	<b>1. Dr. Nandakumar kalarikkal</b> School of pure and applied physics kottayam kerala (686560)	<b>1. Dr. Subila k balakrishnan</b> Assistant Professor School of Chemical Sciences Mahatma Gandhi University Kottayam Kerala (686560)	5 Years and 0 Months	31203200
12	Atomically-thin photonic devices	<b>1. Dr. Santosh kumar</b>	<b>1. Dr. Ethirajulu senthamarai kannan</b>	3 Years and 0	29950000

	as hosts of single-photons and entangled-photon pairs emitters and single-spins for quantum sciences and technologies	Indian institute of technology goa (403401)	Birla institute of technology and science pilani, goa campus zuarinagar goa (403726)	Months	
13	Design and Development of super-oscillation based optical system beating diffraction limit	<p><b>1. Dr. BRIJESH KUMAR SINGH</b> Assistant Professor, Physics department, CENTRAL UNIVERSITY OF RAJASTHAN Rajasthan (305817)</p> <p><b>2. Prof. Kedar b khare</b> Physics department, iit delhi, hauzkhas, delhi hauzkhas delhi (110016)</p>	Na	3 Years and 0 Months	7542832
14	In vivo multispectral fluorescent imaging using biocompatible quantum dots to precisely assess cardiac remodeling post myocardial infarction	<p><b>1. Dr. Dhananjay bodas</b> Agharkar research institute Pune maharashtra (411004)</p>	<p><b>1. Dr. Virendra gajbhiye</b> Agharkar research institute Nanobioscience group, Agharkar Research Institute, Pune Maharashtra (411004)</p>	3 Years and 0 Months	22882000
15	Efficient Harvesting of Triplet Exciton in Organic Inorganic Hybrid Quantum Material Revealed by Ultrafast Spectroscopy for Optoelectronic Application	<p><b>1. Dr. Karunakaran venugopal</b> Industrial estate p.o, pappanamcode, thiruvananthapuram thiruvananthapuram kerala ( 695019)</p>	<p><b>1. Dr. M sathish</b> Csir-central electrochemical research institute, karaikudi karaikudi tamilnadu (630006)</p> <p><b>2. Dr. N ayyadurai</b> Csir-central leather research institute clri adyar, chenna adyar tamilnadu (600020)</p> <p><b>3. Dr. N lakshminarasimhan</b> Csir-central electrochemical research institute, karaikudi, tamil nadu karaikudi tamilnadu (630003)</p> <p><b>4. Dr. S easwaramoorthi</b></p>	3 Years and 0 Months	31650960

			<p>Csir-central leather research institute adyar, chennai adyar tamilnadu (600020)</p> <p>Moorthi@clri.res.in</p> <p><b>5. Dr. Subrata das</b> CSIR-National Institute for Interdisciplinary Science and Technology Trivandrum Kerala (695019)</p> <p><b>6. Dr. V k praveen</b>  National Institute for Interdisciplinary Science and Technology Photosciences and Photonic section Trivandrum Kerala (695019)</p>		
16	Development of strongly spin orbit coupled topological quantum hetero-structures for spintronic application	<p><b>1. Dr. Indranil sarkar</b>  Institute of nano science and technology Mohali punjab (160062)</p> <p><b>2. Prof. Anjan barman</b>  Department of Condensed Matter Physics and Materials Sciences, S. N. Bose National Centre For Basic Sciences, Kolkata West Bengal (700016)</p>	<p><b>1. Dr. Arabinda haldar</b> IIT hyderabad  Department of Physics , IIT Hyderabad, Kandi, Hyderabad Telangana (502285)</p> <p><b>2. Dr. Yogesh singh</b> Indian Institute for Science and Engineering Research Mohali, Sector 81, SAS Nagar, Mohali, Punjab - 140306 Mohali Punjab (140306)</p>	3 Years and 0 Months	98307000
17	Quantum information processing with trapped ions and ultracold atoms	<p><b>1. Dr. Subhas ghosal</b> National institute of technology, Durgapur west bengal (713204)</p> <p><b>2. Dr. Biplab goswami</b> Gaya college of engineering, gaya  Department of Physics Gaya College of Engineering, Gaya Bihar (823003)</p>	Na	3 Years and 0 Months	4992900

18	Pilot studies on the multifunctional nanoparticle based theranostic agents for biomedical applications	<p><b>1. Dr. E k girija</b> Periyar palkalai nagar periyar university salem tamilnadu (636011)</p>	<p><b>1. Dr. G suresh kumar</b> K.S. Rangasamy College of Arts and Science Autonomous Tiruchengode, Tamil Nadu, Tamilnadu (637215)</p> <p><b>2. Prof. K jeganathan</b> Bharathidasan university, tiruchirappalli, tamil nadu, india tiruchirappalli tamilnadu (620024)</p> <p><b>3. Prof. Nandakumar kalarikkal</b> Mahatma gandhi university Mahatma gandhi university, kottayam, kerala, india kottayam kerala (686560)</p> <p><b>4. Dr. V manju</b> Periyar university Periyar palkalai nagar, periyar university, salem salem tamilnadu (636011)</p>	3 Years and 0 Months	21753556
19	Development of high-quality quantum materials based on diamond for applications in sensing, computation and communications	<p><b>1. Prof. M s ramachandra rao</b> Indian institute of technology madras chennai tamilnadu (600036)</p>	<p><b>1. Dr. Anbarasu manivannan</b> Dept. Of EE, IITM (INSTITUTE OF TECHNOLOGY MADRAS) chennai Tamilnadu (600036)INDIAN</p> <p><b>2. Prof. G baskaran</b> lit madras Institute of Mathematical Sciences,Chennai Tamilnadu (600036)</p> <p><b>3. Prof. K baskar</b> Anna university, chennai-600025 chennai tamilnadu (600025)</p> <p><b>4. Dr. K lakshmi ganapathi</b> Indian institute of technology madras Dept. Of Physics Chennai Tamilnadu (600036)</p>	3 Years and 0 Months	719

			<p><b>5. Prof. K sethupathi</b> lit madras Dept. Of Physics Chennai Tamilnadu (600036)</p> <p><b>6. Dr. Neti v l narasimha murty</b> Indian institute of technology tirupati Dept. Of Electrical Engineering, Tirupati Tirupati Andhra Pradesh (517506)</p> <p><b>7. Dr. Ramesh thamankar</b> Vellore institue of technology Vellore tamilnadu (632014)</p> <p><b>8. Dr. Shubra singh</b> Anna university Anna university, chennai- 600025 chennai tamilnadu (600025)</p> <p><b>9. Dr. Siva ramakrishnan</b> Indian institute of technology madras Sardar patel road chennai tamilnadu (600036)</p> <p><b>10. Dr. Tarun sharda</b> lit madras 140, shree gopal nagar, gopalpura bypass road, jaipur 302015 jaipur rajasthan (302021)</p> <p><b>11. Dr. V praveen bhallamudi</b> Indian institute of technology madras Dept of Physics Chennai Tamilnadu (600036)</p>		
20	Band gap and interfacial engineering of air stable Pb2 free hybrid perovskite materials for low temperature processed	<p><b>1. Prof. Satyabrata jit</b> Department of Electronics Engineering, IITBHU Varanasi Uttar Pradesh (221005)</p>	<p><b>1. Dr. Bratindranath mukherjee</b> Department of Metallurgical Engineering, IIT(BHU) Varanasi, UP-221005 Varanasi Uttar Pradesh (221005)</p>	3 Years and 0 Months	9862000



	flexible photovoltaic and optoelectronic application		<p><b>2. Dr. Pramod kumar tiwari</b> Department of Electrical Engineering, IIT Patna, Bihar Patna Bihar (801106)</p> <p><b>3. Dr. Santanu das</b> IIT (bhu) varanasi Department of Ceramic Engineering, IIT(BHU), Varanasi-221005 Varanasi Uttar Pradesh (221005)</p> <p><b>4. Dr. Shweta tripathi</b>  Department of Electronics and Communication Engineering, Motilal Nehru National Institute of Technology Allahabad, UP-211014, INDIA Allahabad Uttar Pradesh (211014)</p> <p><b>5. Dr. Trupti ranjan lenka</b> National institute of technology silchar  Assistant Professor, Dept. Of Electronics &amp; Communication Engineering, National Institute of Technology Silchar, Assam, 788010, INDIA Borakhai Grant Assam (788010)</p>		
21	2D van der Waals twistrionics and novel emergent phases in low dimensional quantum systems	<p><b>1. Dr. Vidya kochat</b> Indian Institute of Technology, Kharagpur Kharagpur West Bengal (721302)</p> <p><b>2. Prof. Abhishek kumar singh</b> Indian institute of science bangalore  Materials Research Centre, Indian Institute of Science, Bengaluru Karnataka (560012)</p> <p><b>3. Dr. Basudev lahiri</b></p>	<p><b>1. Dr. Chandra sekhar tiwary</b> Metallurgical and Materials Engineering, Indian Institute of Technology, Kharagpur, West Bengal Kharagpur West Bengal (721302)</p>	3 Years and 0 Months	58900000

		Indian institute of technology kharagpur, kharagpur			
22	Heusler Alloys - A promising class for multi-functional topological properties	<b>1. Prof. Aftab alam</b> Department of Physics, IIT Bombay, Powai Powai, Mumbai Maharashtra (400076)	<b>1. Prof. K g suresh</b> Department of Physics, IIT Bombay, Powai Mumbai Maharashtra (400076)  <b>2. Prof. Ravi prakash singh</b> Department of Physics, IISER Bhopal, Bhauri, Bhopal Bhopal Madhya Pradesh (462066)	3 Years and 0 Months	9794400
23	Tuning of magnetic skyrmionic spin structure in ferrimagnetic nanostructure for data storage application	<b>1. Dr. JYOTI RANJAN MOHANTY</b>  Indian institute of technology hyderabad kandi telangana (502285)	Na	3 Years and 0 Months	12650000
24	Novel Phenomena in Engineered Quantum Nanostructures	<b>1. Dr. Sunil nair</b> Indian institute of science education and research pune maharashtra (411008)  <b>2. Prof. Subhabrata dhar</b> Department of Physics IIT Bombay, Powai Mumbai - Mumbai Maharashtra (400076)  <b>3. Dr. Dhanvir rana</b> Indian Institute of Science Education and Research Bhopal Madhya Pradesh (462066)	<b>1. Dr. Atikur rahman</b> liser pune, dr. Homi bhabha road, pashan, pune pune maharashtra (411008)  <b>2. Dr. G sreejith</b> liser pune, dr. Homi bhabha road, pashan, pune pune maharashtra (411008)  <b>3. Dr. Mukul kabir</b> IISER pune, Dr. Homi Bhabha Road, Pashan, Pune Pune Maharashtra (411008)  <b>4. Prof. Satish ogale</b> Department of Physics, IISER Pune, Dr. Homi Bhabha Road, Pashan, Pune Pune Maharashtra (411008)  <b>5. Dr. Surajit saha</b> Indian Institute of Science Education and Research Bhopal Madhya Pradesh (462066)	3 Years and 0 Months	139712000
25	InAs based novel HEMT	<b>1. Dr. MOHANKUMAR NAGARAJAN</b>	<b>1. Dr. M ARUN KUMAR</b>	3 Years and 0 Months	2650800

	architectures for Bio-medical sensing and Terahertz Imaging Applications	Gitam school of technology, gitam university bangalore karnataka (562163)	Gitam school of technology, gitam university bangalore	Months	
26	Transition metal-doped ZnO based diluted magnetic semiconductor nanorods/nanowires for room-temperature device applications	<b>1. Dr. Venkataiah gorige</b> University of hyderabad  Hyderabad telangana (500046)	Na	3 Years and 0 Months	2585000
27	Interplay of topology and strong correlation in Higher Order Topological Insulators and anisotropic Kitaev-Heisenberg spin systems	<b>1. Prof. ARIJIT SAHA</b>  Institute of physics bhubaneswar orissa (751005)	<b>1. Prof. Anamitra mukherjee</b> National Institute of Science Education and Research NISER Bhubaneswar, Bhubaneswar Orissa (752050) <b>2. Dr. Arijit kundu</b>  Indian Institute of Technology IIT Kanpur, Kalyanpur, Kanpur Uttar Pradesh (208016) <b>3. Prof. Dinesh topwal</b>  Institute of Physics Sachivalaya Marg Bhubaneswar Orissa (751005) <b>4. Dr. Manju unnikrishnan</b> CSIR-Institute of Minerals and Materials Technology (IMMT), Bhubaneswar-751013, Odissa <b>5. Prof. Saptarshi mandal</b>  Institute of Physics Sachivalaya Marg Bhubaneswar Orissa (751005) <b>6. Prof. V ravi chandra</b> National Institute of Science Education and Research (NISER) Bhubaneswar Orissa (752050)	3 Years and 0 Months	45045000
28	Emergent Phenomena in Quantum Materials	<b>1. Prof. P s anil kumar</b> Indian institute of science Bangalore karnataka (560012)	<b>1. Prof. Ajay k sood</b> Indian institute of science bangalore Dept of physics,	5 Years and 0 Months	425848000

		iisc bangalore karnataka (560012)	
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**2. Prof. Akshay naik**

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**3. Prof. Ambarish ghosh**

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**4. Dr. Anindya das**

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**5. Prof. Aveek bid**

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**10. Prof. S sampath**

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**11. Dr. Srimanta middey**

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**12. Prof. Srinivasan raghavan**

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**13. Dr. Tanmoy das**

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**14. Prof. Umesh v waghmare**

Jawaharlal nehru institute of advanced studies

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**15. Dr. Vibhor singh**

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**16. Dr. Victor s muthu**

			Indian institute of science bangalore Dept of physics, iisc bangalore karnataka (560012)		
29	Development of graphene quantum capacitance based breathing sensor with machine learning assisted molecular selectivity	<p><b>1. Dr. Jayachandra bingi</b></p> <p>Indian institute of information technology design and manufacturing kancheepuram, chennai</p> <p>Indian Institute of Information Technology design manufacturing Melakottaiyur, Vandalur-Kelambakkam Road, Nellikuppam road Chennai Tamilnadu (600048)</p> <p><b>2. Dr. Eswaraiah varrila</b></p> <p>Srm institute of science and technology</p> <p>SRM institute of science and technology Chennai Tamilnadu (603203)</p> <p><b>3. Dr. Karthic narayanan</b></p> <p>Indian institute of information technology design and manufacturing kancheepuram</p> <p>liitdm kanchipuram chennai tamilnadu (600127)</p>	Na	3 Years and 0 Months	12067800
30	Nano-Devices with Correlated Quantum Materials	<p><b>1. Prof. Zakir hossain</b></p> <p>Indian institute of technology kanpur</p> <p>lit kanpur kanpur nagar uttar pradesh (208016)</p>	<p><b>1. Dr. Amit kumar agarwal</b></p> <p>lit kanpur</p> <p>Department of Physics, IIT Kanpur, Kanpur Kanpur Uttar Pradesh (208016)</p>	3 Years and 0 Months	55000000

		<p><b>2. Dr. Soumik mukhopadhyay</b> IIT Kanpur</p> <p>Department of Physics, Indian Institute of Technology Kanpur, Kanpur - 208016, India Kanpur Uttar Pradesh (208016)</p>	<p><b>2. Dr. Arijit Kundu</b> Indian Institute of Technology Kanpur</p> <p>Department of Physics Indian Institute of Technology Kanpur Kanpur Uttar Pradesh (208016)</p> <p><b>3. Prof. Indranil Das</b> Saha Institute of Nuclear Physics CMP Division Saha Institute of Nuclear Physics 1/AF, Bidhannagar, Kolkata Kolkata West Bengal (700064)</p> <p><b>4. Dr. Jayita Nayak</b> IIT Kanpur</p> <p>Department of Physics, IIT Kanpur Kanpur Uttar Pradesh (208016)</p> <p><b>5. Prof. Pinaki Majumdar</b> Harish Chandra Research Institute  Harish-Chandra Research Institute, Chhatnag Road, Jhusi Allahabad Uttar Pradesh (211019)</p>		
31	Synthesis of Hybrid Nanocomposites from Quantum Dots to Investigate Thermoelectric Properties	<p><b>1. Prof. Kedar Singh</b> Jawaharlal Nehru University  Aruna Asaf Ali Marg New Delhi-110067 New Delhi Delhi (110006)</p>	Na	3 Years and 0 Months	7938000
32	Low dimensional quantum matter	<p><b>1. Prof. Mandar M. Deshmukh</b>  Tata Institute of Fundamental Research (TIFR)  DCMP and MS, TIFR, Homi Bhabha Road Homi Bhabha Road Mumbai Maharashtra (400005)</p>	<p><b>1. Prof. Arnab Bhattacharya</b>  Tata Institute of Fundamental Research  Dept of CMPMS, Tata Institute of Fundamental Research Homi Bhabha Road, Colaba Mumbai Maharashtra (400005)</p>	3 Years and 0 Months	147363784

**2. Prof. Arumugam thamizhavel**

Tata institute of fundamental research

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**3. Prof. Krishnendu sengupta**

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**4. Prof. Pratap raychaudhuri**

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**5. Prof. Rajdeep sensarma**

Tata institute of fundamental research (tifr)  
Homi bhabha  
road mumbai maharashtra (400005)

**6. Prof. Shriganesh s prabhu**

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road mumbai maharashtra (400005)

**7. Prof. Venu gopal achanta**

Tata institute of fundamental research



			Dept of CMPMS, Tata Institute of Fundamental Research Homi Bhabha Road, Colaba Mumbai Maharashtra (400005)		
33	Low cost, user-friendly and ultra-sensitive spintronics sensor for arsenic and fluoride detection in water and biochar nanocomposite-based removal of those pollutants " An initiative towards "Swasth Bharat"	<p><b>1. Prof. Bijoy kumar kuanr</b> Jawaharlal nehru university</p> <p>Special Centre for Nanoscience, Jawaharlal Nehru University, New Mehrauli Road New Delhi Delhi (110067)</p>	<p><b>1. Prof. Dinesh mohan</b> Jawaharlal nehru university School of Environmental Sciences Jawaharlal Nehru University   New Delhi Delhi Delhi (110067)</p> <p><b>2. Dr. P k muduli</b> Indian institute of technology delhi Department of Physics Indian Institute of Technology Delhi Hauz Khas, New Delhi Delhi Delhi (110016)</p> <p><b>3. Dr. Ram krishna ghosh</b> Jawaharlal nehru university Special Centre for Nano Science Jawaharlal Nehru University, New Delhi Delhi Delhi (110067)</p>	3 Years and 0 Months	49344000
34	Sustainable mass production of doped GQDs from polymeric waste for heavy metal detection in water	<p><b>1. Prof. Rajiv k srivastava</b> Indian institute of technology delhi Department of Textile Technology, Indian Institute of Technology- Hauz Khas New Delhi (110016)</p> <p><b>2. Dr. Satish kumar</b> St. Stephen's college, university of delhi department of chemistry, north campus, delhi (110007)</p>	<p><b>1. Dr. Bhanu nandan</b> Department of Textile Technology, IIT Delhi, Hauz Khas, New Delhi New Delhi Delhi (110017)</p>	3 Years and 0 Months	22456016
35	NANOCLUSTER-2D HYBRID	<b>1. Prof. Santhosh chidangil</b>	<b>1. Dr. Gabriel rodrigues</b>	3 Years and 0	143149000

	QUANTUM COMPOSITE FOR CANCER IMAGING AND SURGICAL DEMARCATION	Manipal university  Kmc quarter 151 manipal karnataka (576104)	<p>Kasturba medical college, manipal Kasturba Medical College, Manipal Academy of Higher Education, Manipal Manipal Karnataka (576104)</p> <p><b>2. Dr. Habeeb muhammed m a</b> Manipal academy of higher education  Lg-1, academic block-5, mit campus, manipal manipal karnataka (576104)</p> <p><b>3. Dr. Manna valiathan</b> Kasturba medical college, manipal Kasturba Medical College, Manipal Academy of Higher Education, Manipal Manipal Karnataka (576104)</p> <p><b>4. Dr. Sajan daniel george</b> Manipal academy of higher education  Lg-1, academic block-5, mit campus, manipal manipal karnataka (576104)</p> <p><b>5. Dr. T pradeep</b> lit madras  Department of Chemistry, Indian Institute of Technology, Madras, Chennai “ 600 036, India Chennai Tamilnadu (600036)</p> <p><b>6. Dr. Unnikrishnan V K</b> Manipal academy of higher education  Lg-1, academic block-5, mit campus, manipal manipal karnataka (576104)</p>	Months	
36	Emergent Phenomena in 2D heterostructures	<b>1. Dr. Adarsh kumaran nair valsala devi</b>  Indian institute of science education and research bhopal	<b>1. Dr. Debjani karmakar</b>  Bhabha atomic research center	3 Years and 0 Months	120777000

		<p>Bhopal bypass road, bhauri, bhopal bhopal madhya pradesh (462066)</p> <p><b>2. Prof. Samit kumar ray</b> S n bose centre for basic sciences</p> <p>Senior Professor &amp; Director S. N. Bose National Centre for Basic Sciences JD Block, Sector III Salt Lake City, Kolkata Kolkata West Bengal (700106)</p> <p><b>3. Dr. Kasturi saha</b> lit bombay</p> <p>Dept. Of Electrical Engineering, IIT Bombay, Powai, Mumbai Mumbai Maharashtra (400076)</p> <p><b>4. Dr. Sangita bose</b>  Um dae centre for excellence in basic sciences</p> <p>301 Bhaskara, TIFR Housing Colony, homibhabha Road, Colaba Mumbai Maharashtra (400005)</p> <p><b>5. Dr. Ranjit hawaldar</b>  Center for materials for electronics technology (cmet) Pune maharashtra (411008)</p>	<p>Barc, trombay, mumbai mumbai maharashtra (400087)</p> <p><b>2. Prof. Samir kumar pal</b> S n bose centre for basic sciences Department of Chemical, Biological &amp; Macromolecular Sciences S N Bose National Centre for Basic Sciences JD Block, Sector III Salt Lake City Kolkata Kolkata West Bengal (700106)</p> <p><b>3. Prof. Saurabh lodha</b> lit bombay</p> <p>Dept. Of Electrical Engineering, IIT Bombay, Powai, Mumbai Mumbai Maharashtra (400076)</p> <p><b>4. Dr. Shany joseph</b>  Center for materials for electronics technology (cmet)  Centre for Materials for Electronics Technology (C-MET) Panchawati, Off Pashan Road Pune Maharashtra (411008)</p>		
37	Remote control of single molecule transport using magnetostriptive nanocontacts	<p><b>1. Prof. Suryanarayana jammalamadaka</b>  Indian institute of technology, hyderabad Telangana (502285)</p>	Na	3 Years and 0 Months	3511640
38	Manipulation of Real Space	<b>1. Dr. Ashis kumar nandy</b>	<b>1. Dr. Ajaya kumar nayak</b>	3 Years and 0	31010000

	Topology by Tuning Momentum Space Topology in Ferromagnet/Topological Insulator Multilayers	National institute of science education and research  School of Physical Sciences, National Institute of Science Education and Research Odisha Jatni Orissa (752050)	National institute of science education and research  National Institute of Science Education and Research Bhubaneswar P.O. Jatni, Khurda, Odisha, India Mobarakpur Orissa (752050) <b>2. Dr. Dinesh topwal</b> Institute of physics	Months	
39	Effect of reduced dimensionality on the electronic and topological features of quantum materials	<b>1. Prof. Avinash v mahajan</b>  Indian institute of technology bombay, mumbai maharashtra (400076)	<b>1. Prof. Devajyoti mukherjee</b>  Indian association for the cultivation of science <b>2. Prof. Indra dasgupta</b>  Indian association for the cultivation of science <b>3. Prof. Krishnakumar menon</b> Saha institute of nuclear physics <b>4. Prof. Mintu mondal</b>  Indian association for the cultivation of science <b>5. Prof. Subhadeep datta</b>  Indian association for the cultivation of science <b>6. Prof. Subham majumdar</b>  Indian association for the cultivation of science <b>7. Prof. Sugata ray</b>  Indian association for the cultivation of science	3 Years and 0 Months	108451200

			<b>8. Prof. Sumiran pujari</b>		
			Indian institute of technology bombay, mumbai		
40	Development of efficient imaging probe for CTC through fluorescent labeling and bio-targeting	<b>1. Dr. Rajib biswas</b> TEZPUR UNIVERSITY Department of Physics Tezpur Assam (784028)	<b>1. Dr. Deeksha pandey</b> Mahe, manipal Department of Obstetrics & Gynecology, Kasturba Medical collegemanipal Academy of Higher Education (MAHE), Manipal-576104, Karnataka, India. MANIPAL Karnataka (576104) <b>2. Prof. Krishna sharan</b> Mahe, manipal Department of Radiotherapy and Oncology, Kasturba Hospital, Manipal Academy of Higher Education (MAHE), Manipal-576104, Karnataka, India. MANIPAL Karnataka (576104) <b>3. Dr. Nirmal mazumdar</b> Mahe, manipal Department of Biophysics Manipal School of Life Sciences Planetarium complex Manipal Academy of Higher Education (Deemed Un manipal Karnataka (576104) <b>4. Prof. Pritam deb</b> Tezpur university Department of Physics Tezpur University Assam-784028 Tezpur Assam (784028) <b>5. Dr. Shama prasada kabekkodu</b> Mahe, manipal	3 Years and 0 Months	9750400

			Department of Cell and Molecular Biology, Manipal School of Life Sciences (SLS), Manipal Academy of Higher Education (MAHE), Manipal-576104, Karnataka, India. MANIPAL Karnataka (576104)		
41		<b>1. Dr. SUNIPA ROY</b>  Guru nanak institute of technology Kolkata west bengal (700114)	<b>1. Dr. Sarbani ganguly</b>  Narula institute of technology  81 nilgunj road, agarpara kolkata west bengal (700109) <b>2. Dr. Swagata bhattacharjee</b>  Jis college of engineering JIS College of Engineering, Block A, Barrackpore - Kalyani Expy, Nadia, Phase III, Kalyani, West Bengal 741235 Kalyani West Bengal (700114)	<b>5 Years and 0 Months</b>	13880000
42	2D heterostructures for opto- electronic devices: Temporal and spatial interface studies by ultrafast spectroscopy and microwave impedance microscopy	<b>1. Prof. Hirendra nath ghosh</b>  Institute of nano science and technology Mohali ,punjab (160062)	<b>1. Dr. Goutam sheet</b>  Institute of nano science and technology  Sector 81, sas nagar, knowledge city, 140306, mohali, punjab mohali punjab (160062) <b>2. Dr. Kiran shankar hazra</b>  Institute of nano science and technology  Habitat centre, phase 10, sector - 64 sahibzada ajit singh nagar, punjab mohali punjab (160062)	3 Years and 0 Months	46674240
43	New Generation Quantum Materials: Design, Synthesis and Properties	<b>1. Prof. D d sarma</b>  Indian institute of science bangalore	<b>1. Dr. Abhishake mondal</b>  Indian institute of science bangalore	3 Years and 0 Months	144669655

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India Bengaluru Karnataka (560012)

**4. Prof. Chandrabhas narayana**

Jawaharlal nehru centre for advanced scientific  
research (jncasr)

Chemistry and Physics of Materials Unit  
Jawaharlal Nehru Centre for Advanced  
Scientific Research Jakkur P.O., Bangalore  
560064 Bengaluru Karnataka (560064)

**5. Prof. Kedar damle**

Tata institute of fundamental research (tifr)

			<p>A314 Department of Theoretical Physics Tata Institute of Fundamental Research Dr. Homi Bhabha Road Colaba, Mumbai 400005 Maharashtra, India. Mumbai Maharashtra (400005)</p> <p><b>6. Dr. Naga phani b aetukuri</b></p> <p>Indian institute of science bangalore Solid State and Structural Chemistry Unit Indian Institute of Science C. V. Raman Road, Bengaluru “ 560012 Bengaluru Karnataka (560012)</p> <p><b>7. Prof. Pankaj mandal</b></p> <p>Indian institute of science education and research pune</p> <p>Department of Chemistry Indian Institute of Science Education and Research IISER Dr. Homi Bhabha Road, Pashan, Pune 411008, India Pune Maharashtra (411008)</p> <p><b>8. Prof. Vikram tripathi</b></p> <p>Tata institute of fundamental research (tifr)</p> <p>Department of Theoretical Physics Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai-400 005, Maharashtra Mumbai Maharashtra (400005)</p>		
44	Up-conversion nanoparticles UCNPs as theranostic approach for bladder cancer using photodynamic and photo thermal therapy	<p><b>1. Prof. Munira momin</b></p> <p>Svkm's dr bhanuben nanavati college of pharmacy mumbai maharashtra (400056)</p>	<p><b>1. Prof. Raghumani singh n</b></p> <p>Bhabha atomic research center</p>	3 Years and 0 Months	18009699



			Chemistry division, bhabha atomic research centre, mumbai-400085, maharashtra, india. Mumbai maharashtra (400085) <b>2. Prof. Tabassum khan</b> Svkm's dr bhanuben nanavati college of pharmacy mumbai maharashtra (400056)		
45	Development of negative capacitance field effect transistors with ferroelectric materials and two dimensional semiconductor channel for ultra low power computing	<b>1. Dr. Ayan roy chaudhuri</b> INDIAN INSTITUTE OF TECHNOLOGY kharagpurwest Bengal (721302)	<b>1. Dr. Prasana kumar sahu</b> Indian institute of technology kharagpur west bengal (721302) <b>2. Dr. Sajal dhara</b> Indian institute of technology kharagpur	3 Years and 0 Months	22396800
46	Quantum Dust An Intelligent Nanoelectromechanical systems using Nanodiamond For Enabling Detailed In-Situ Monitoring of Real-World Phenomena	<b>1. Dr. Sridhar K P</b> Karpagam university, karpagam academy of higher education Post eachanari tamilnadu (641021)	<b>1. Dr. KARTHIK RAJENDRA</b> Mlr institute of technology hyderabad hyderabad telangana (500043) <b>2. Dr. S baskar</b> Karpagam academy of higher education <b>3. Dr. Vivek anand</b> Mlr institute of technology hyderabad	3 Years and 0 Months	9460000
47	Exploration of topological superconductivity and Majorana Fermions in heterostructured epitaxial thin films of topological materials, superconductors and magnetic insulators	<b>1. Dr. KARTHIK V RAMAN</b> Tata institute of fundamental research hyderabad Gopanally, hyderabad hyderabad telangana (500107)	Na	4 Years and 0 Months	56200000
48	CONsortium for Collective and Engineered Phenomena in Topology CONCEPT	<b>1. Prof. Arindam ghosh</b> Indian institute of science, bangalore karnataka (560012)	<b>1. Dr. Atindra nath pal</b> S. N. Bose national centre for basic sciences	5 Years and 0 Months	376700000

			<p><b>2. Prof. Goutam sheet</b> Indian institute of science education and research mohali</p> <p><b>3. Prof. Manish jain</b> Indian institute of science bangalore</p> <p><b>4. Prof. Prabhat mandal</b> Saha institute of nuclear physics</p> <p><b>5. Prof. Rajendra singh</b> lit delhii</p> <p><b>6. Prof. Satyabrata patnaik</b> Jawaharlal nehru university</p> <p><b>7. Dr. Subhro bhattacharjee</b>  International center for theoretical sciences, tifr</p> <p><b>8. Dr. Sujit manna</b> lit delhi</p> <p><b>9. Prof. Tanusri sahadasgupta</b>  S. N. Bose national centre for basic sciences  S.N.Bose National Centre for Basic Sciences JD Block, Sector III, Salt Lake Kolkata, West Bengal Kolkata West Bengal (700106)</p> <p><b>10. Prof. Vijay shenoy</b> Indian institute of science, bangalore  Dept. Of physics indian institute of science bangalore karnataka (560012)</p>		
49	Development of catalytic free	<b>1. Prof. Indrajit mukhopadhyay</b>	<b>1. Prof. Abhijit ray</b>	3 Years and 0	7688240

	graphene directly grown on Si dielectrics for optoelectronic applications	Pandit deendayal petroleum university, gujarat gandhinagar gujarat (382007)	Pandit deendayal petroleum university, gujarat pdpu gandhinagar gujarat (382007)	Months	
50	Solution-processable Organic NIR/SWIR Photodetectors for Imaging Applications	<b>1. Dr. Reji varghese</b>  Indian institute of science education and research thiruvananthapuram kerala (695551)	<b>1. Dr. Jinesh K B</b> Indian institute of space science and technolgy  Department of Physics IIST Valiamala Trivandrum Kapickad Kerala (695547) <b>2. Dr. Manoj a g namboothiry</b>  Indian institute of science education and research thiruvananthapuram  IISER Thiruvananthapuram School of Physics, Maruthamala PO, Vithura Thiruvananthapuram Maikad Kerala (695551) <b>3. Prof. Suresh das</b>  Indian institute of science education and research thiruvananthapuram  School of chemistry IISER Thiruvananthapuram Maruthamala, Vithura Hiraakud Orissa (695551)	3 Years and 0 Months	38572000
51	Role of chemical pressure in quantum materials RE <sub>2</sub> X <sub>2</sub> O <sub>7</sub> (RE = Er, Dy, Ho, Tb X= Ge, Ti, Sn) spin ices/liquid	<b>1. Dr. Chandan upadhyay</b>  Indian institute of technology (banaras hindu university)  Varanasi uttar pradesh (221005)	<b>1. Dr. Sunil kumar mishra</b>  Indian institute of technology, banaras hindu university, Department of Physics, Varanasi Uttar Pradesh (221005)	3 Years and 0 Months	6916800
52	Design and Analysis of High Performance Enhancement Mode Gate Recessed	<b>1. Dr. AJAYAN J</b> SNS COLLEGE OF TECHNOLOGY coimbatore Tamilnadu (641107)	<b>1. Mr. Saravanan M</b>  SNS COLLEGE OF TECHNOLOGY coimbatore Tamilnadu (641107)	3 Years and 0 Months	2060000

	InAlN/GaN MOSHEMTs for High Power Applications				
53	Development of nanomaterials based biosensing device for non-invasive oral cancer detection	<b>1. Prof. Ramesh Chandra Head, Department of Chemistry</b> University of delhi delhi (110007)	<b>1. Dr. SUVEEN KUMAR</b>	3 Years and 0 Months	22148640
54	Oxide thin films, interfaces and superlattices for integrated and emergent quantum phenomena.	<b>1. Dr. Suvankar chakraverty</b> Institute of nano science and technology mohali punjab (160062)	<b>1. Dr. Yogesh singh</b> Indian institute of science education and research mohali	3 Years and 0 Months	29952000
55	Superconductivity in a Frustrated Artificial Spin Lattice	<b>1. Dr. Soumya jyoti ray</b> Indian institute of technology patna bihar (801103)	Na	3 Years and 0 Months	4957120
56	Synthesis and Characterization of Graphene, Zinc Oxide and Silver Quantum Dots Through Continuous Flow Technology.	<b>1. Dr. KUSHAL SURAJMAL MANUDHANE</b> Dr. Reddy's institute of life sciences hyderabad gachibowli telangana (500046)	<b>1. Dr. Bharati rajeev rehani</b> <b>2. Mr. Mahesh kumar uppada</b> <b>3. Dr. Marina rajadurai</b>	3 Years and 0 Months	6641000
57	Design and Implementation of low-dimensional and Superior Nano HEMT having Remarkable Properties by discounting the parasitic Nano-Crack Formation	<b>1. Dr. K MAJUMDAR</b> Indian institute of technology (indian school of mines), dhanbad jharkhand	Na	3 Years and 0 Months	128200
58	Design, Fabrication and Characterization of High-Performance Phosphor-Free III-Nitride Nanowire White LEDs for Next Generation Applications	<b>1. Dr. TRUPTI RANJAN LENKA</b> National institute of technology silchar assam (788010)	<b>1. Dr. Susanta kumar tripathy</b>	3 Years and 0 Months	33628000
59	Novel Flexible and stretchable chemical sensors based on phase tunable 2D ternary	<b>1. Dr. Dattatray jaysing late</b> Amity university, mumbai, maharashtra	<b>1. Dr. Chandra sekhar rout</b> Jain university, centre for nano and material science bangalore karnataka (562112)	3 Years and 0 Months	9160000

	transition metal chalcogenides Nanosheets for large area electronic skin applications with insight from operando spectroscopic investigations	Centre for Nanoscience and Nanotechnology Amity University Pune Mumbai Maharashtra (410206)	2. <b>Dr. Pravin s walke university of mumbai</b> 3. <b>Dr. Suhas jejurikar</b>		
60	REPd/PtBi Thin films A Multifunctional Experimental Platform for exploring Topological Quantum phenomena amp Magnetism	1. <b>Prof. Ratnamala chatterjee</b> Indian institute of technology delhi	1. <b>Dr. Debanjan bhowmik indian institute of technology delhi</b>  2. <b>Prof. Pankaj srivastava</b> indian institute of technology delhi	3 Years and 0 Months	13676150