

## Prof. Arindam Ghosh

Name : Prof. Arindam Ghosh  
Current Affiliation : Dept of Physics, Indian Institute of Science, Bangalore  
Ph.D. : Indian Institute of Science, Bangalore  
Post – Doc : University of Cambridge, UK  
Research Interests :

- Experimental condensed matter physics
- Fundamental physics, electronic phases
- The effect of Coulomb interaction and magnetism in
- Atomically thin semiconductors
- Two-dimensional electron systems.

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Brief CV :  
Prof. Arindam Ghosh obtained his B.Sc degree with Physics Honours from St. Xavier's College, Kolkata, affiliated with the University of Calcutta. He pursued an Integrated Ph.D. program at the Indian Institute of Science (IISc), Bangalore, completing his master's degree in 1994 and his Ph.D. in Physics in 1999. He then joined the University of Cambridge, UK, as a postdoctoral research associate. His research interests span experimental condensed matter physics, including electronic phases, Coulomb interactions, and magnetism in atomically thin semiconductors and two-dimensional electron systems. He works extensively on electrical transport and noise in atomic membranes and nanoscale devices, as well as optoelectronics and spintronics involving two-dimensional hybrid materials. He is the recipient of several prestigious awards, including the Infosys Prize in Physical Sciences for his pioneering work in developing atomically thin 2D semiconductors for next-generation electronic, thermoelectric, and optoelectronic devices. He has also been honoured with the YIM Young Scientist Award (Boston) and the Oxford Instruments Young Nano Scientist Award.

- Pritam Pal, Saisab Bhowmik, Aparna Parappurath, Saloni Kakkar, Kenji Watanabe, Takashi Taniguchi, Arindam Ghosh, Low-Frequency Resistance Noise in Near-Magic-Angle Twisted Bilayer Graphene, ACS nano, 3 (19) 2025, 3240-3248.
- Shreya Kumbhakar, Tuhin Kumar Maji, Binita Tongbram, Shinjan Mandal, Shri Hari Soundararaj, Banashree Debnath, Phanindra Sai T, Manish Jain, HR Krishnamurthy, Anshu Pandey, Arindam Ghosh, engineering ultra-strong electron-phonon coupling and nonclassical electron transport in crystalline gold with nanoscale interfaces, Nature Communications, 1 (16) 2025, 61.
- Debasmita Pariari, Paribesh Acharyya, Arijit Sinha, Ashutosh Mohanty, Shaili Sett, Navkiranjot Kaur Gill, Arindam Ghosh, Umesh V Waghmare, Kanishka Biswas, DD Sarma, Non-monotonic Thermal Conductivity of  $\text{FA}_x\text{MA}_{1-x}\text{PbI}_3$  Achieving Ultralow Values: The Role of Anharmonic Low Energy Rotation of Organic Moieties, ACS Energy Letters, 5 (9) 2024, 2128-2136.
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