

BARC Scientist Honored



Dr. Anup Kumar Bera

Dr. Anup Kumar Bera, Scientific Officer/F in the Magnetism Section of the Solid State Physics Division, has been honored with the Asia-Oceania Neutron Scattering Association (AONSA) Science Award 2025 for his exceptional contributions to neutron science. His groundbreaking experimental observations include the realization of “Bethe Strings” and the discovery of novel quasi-particle excitations such as “doublons” and “quartons,” alongside his dedication to solving complex scientific challenges.

Dr. Bera joined BARC as a Scientific Officer in 2015 after earning his Ph.D. in Physics from the University of Mumbai in December 2011. He then conducted postdoctoral research at Helmholtz-Zentrum Berlin für Materialien und Energie, Germany, from December 2011 to June 2015.

His research interests encompass strongly entangled quantum spin systems, quantum phenomena in low-dimensional magnetic materials, quantum phase transitions, quantum spin-liquids, and energy materials for future technologies. Dr. Bera has authored over 90 research papers in leading international journals such as *Nature*, *Nature Physics*, and *Nature Communications*, along with 20 conference papers and two book chapters.

Among his notable achievements are the Young Scientist Award (2018) from the DAE, Government of India, and the Young Achiever Award by the DAE-Solid State Physics Symposium. He has been elected as a Young Associate of the Maharashtra Academy of Sciences and has delivered several invited lectures, including the Infosys Condensed Matter Seminar at TIFR, Mumbai. Additionally, he has received multiple best presentation awards at prestigious conferences.