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NEUTRON SCATTERING RESEARCH IN INDIA

A National Facility for Neutron Beam Research has been operating for nearly two decades at Bhabha Atomic Research Centre for basic and applied research in condensed matter science. It includes single-crystal and powder diffractometers, a polarization analysis spectrometer, inelastic and quasi-elastic scattering spectrometers in the reactor hall, and small-angle scattering instruments and a polarized neutron reflectometer in the neutron-guide laboratory. All the instruments including the detectors and electronics have been developed within India. The National Facility is regularly utilized in collaboration with about 200 users from various universities and other academic institutions. In addition, we have contributed to significant international cooperation (through IAEA-RCA and otherwise) involving supply of neutron spectrometers and research collaboration on topics of mutual interest with major neutron-scattering laboratories abroad.

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