



# DEPARTMENT OF PHYSICS

(DST-FIST ASSISTED)  
UNIVERSITY OF KASHMIR



## RESEARCH PROJECTS

### Ongoing Projects

Name of PI	Project Title	Year	Amount	Funding Agency
Prof. Manzoor Ahmad Malik	Radio and X-ray studies of non-thermal processes in galaxy clusters and galaxy group.	2022	22,03,542.00	SERB
Prof. Basharat Ahmad Want	Effect of different Excitation wavelength on the structural and optical properties of Europium doped nanoscale Zinc Oxide thin films. (3 YEARS)	2022	2,366,880.00	DST
Prof. Naseer Iqbal	Unveiling the high energy emission properties of blazars using astrosat observations	2021	14 lakhs.	ISRO
Prof. Waseem Bari	Measurement of Integral Vertical Intensity and Angular Distribution of Atmospheric Muons using a Cosmic Ray Telescope	2023	2500000	DST

### Completed Projects

Name of PI	Project Title	Year	Amount	Funding Agency
Dr Syed Shakeel Ahmad	A Study of radon, Thoron and their progeny level in Kashmir valley of J & K State	2016	33,20,700	DAE-BRNS
Prof. Basharat Ahmad Want	Investigations on ferroelectric and optical properties of some rare-earth based metal-organic frameworks (3 YEARS)	2021	5,484,400.00	SERB
Prof. Waseem Bari	R&D Efforts by University Groups for India Based Neutrino Observatory (INO) Project	2016	4884000.00	DST
Prof. Waseem Bari	India Based Neutrino Observatory (INO) Project	2014	870000	DST
Prof. Manzoor A. Malik	Studies on Atmospheric, Ionospheric and Space Science	2016	9.50 lacs +Airglow Imager on loan from NARL	NARL
Dr. Gowher Bashir Wakil (Coordinator)	SAP Program	2016	79.34 Lakh	UGC
Rubiya Samad/ Basharat Want	Preparation and characterization of ferroelectric-ferrite composites	2016	26.1 Lakh	DST
Ghulam Nabi Dar	Study of pure and ion embedded iron oxide nanostructure for sensing and removal of hazardous wastes from waste	2017	31.04 Lakh	DST
Prof. Manzoor A. Malik	X ray Study of Galaxy Clusters	2017	23.38 Lakh	ISRO RESPOND
Ghulam Nabi Dar	Effect of light and heavy ion irradiation on pure and transition metal doped iron oxide thin films	2018	UFR Funding ~ 6 Lakh	IUAC -UGC
Prof. Naseer Iqbal	Multi-wavelength studies of Rich and Poor Galaxy Clusters in an Expanding Universes	2016	6.51 Lakh	ISRO
Prof. Manzoor Malik	CMB Project	2013	16.68 Lakh	DST
Prof. Naseer Iqbal	Estimation of Diffuse Extra galactic background light through VHE Gamma ray observation of Blazars	2019	33,66,700.00	DAE BRNS

### Post Doctoral Projects

Name of PI	Supervisor	Project Title	Year	Funding Agency
Dr. Showkat Hassan	Prof. Basharat Ahmad Want	Theoretical studies on lead-free inorganic halide lanthanide-based double perviskites for solar cell applications	2023	DST-ANRF
Dr. Nazir Ahmad Teli	Prof. Basharat Ahmad Want	A density functional theory study of lead free double perovskites for Spintronics, Optoelectronics and thermoelectric applications	2023	DST-ANRF
Dr. Mariyah Suddiqah	Prof. Waseem Bari	Probing gluon TMDs in J/psi and J/psi production i fcn ep pp collision)	2023	DST-ANRF
Dr. Abdul Gaffar Lone	Prof. Basharat Ahmad Want	Structural, Magnetic and Magnetolectric properties of doped hematite systems.	2020	UGC