DEPARTMENT OF PHYSICS
DYAL SINGH COLLEGE, UNIVERSITY OF DELHI
FACULTY DETAIL

Title	Dr.	First Name	Vishal	Last Name	Maurya	Photograph
Designation		Assistant Professor (Ad-hoc)				
Address		Department of Physics Dyal Singh College (Delhi University) Lodhi road New Delhi -110003				
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Educational Qualifications

Degree	Institution	Year
BSc	G.F. College Shahjahanpur UP (MJPRU)	2007
MSc	JNU New Delhi	2010
PhD (Experimental Physics)	JNU New Delhi	2017

Career Profile

National Post-Doctoral Fellow (IIT Delhi) 2017-2019
Assistant Professor (ad-hoc) 2019- Present

Administrative Assignments (From 1st July 2017 onwards)

Areas of Interest / Specialization

Topological Insulators, Topological Superconductivity, Superconductivity.

Subjects Taught

Nuclear and particle Physics, Electricity, magnetism and Electrodynamics.

Research Guidance

Publications Profile (From 1st July 2017 onwards)

1. Magnetotransport and Berry phase in magnetically doped $Bi_{0.97-x}Sb_{0.03}$ single crystals, V. K. Maurya, Manju Mishra Patidar, Anita Dhaka, R. Rawat, V. Ganesan, and R. S. Dhaka *Phys. Rev. B* **102**, 144412 (2020).
2. Growth and Characterization of Fe0.95Se0.6Te0.4 Single Crystals, Anmol Shukla, Vishal K. Maurya and Rajendra S. Dhaka, *AIP Conference Proceedings* **2115**, 030410 (2019).
3. Suppression of transport spin-polarization of surface states with emergence of ferromagnetism in Mn-doped Bi_2Se_3 by S. Kamboj, S. Das, A. Sirohi, R. Roy Chowdhury, S. Gayen, **V. K. Maurya**, S. Patnaik, G. Sheet *J. Phys. Condens. Matter* 30,355001 (2018).
4. High spin state driven magnetism and thermoelectricity in Mn doped topological insulator Bi_2Se_3, **V.K. Maurya**, C.L. Dong, C.L. Chen, K. Asokan, S. Patnaik, J. Magn. Magn. Mater. 456,

(2018) 1.

5. Magnetic structure driven ferroelectricity and large magnetoelectric coupling in antiferromagnet $Co_4Nb_2O_9$, P. Srivastava, S. Chaudhary, **V. Maurya**, J. Saha a, S.D. Kaushik, V. Siruguri, S. Patnaik, Solid state Commun. 273 (2018) 39.
6. Enhanced ferromagnetism in edge enriched holey/lacey reduced graphene oxide nanoribbons, Vikrant Sahu, **V. K. Maurya**, S. Patnaik. Mater. Des. 132 (2017) 295.

Conference Organization/ Presentations (From 1st July 2017 onwards)

1. Sakura Science Program, Shibaura Institute of Technology, Toyosu, Koto-ku Tokyo, Japan, 3-12 Dec 2018.
2. Participated and presented poster at "Autumn School on Correlated Electrons", "The Physics of Correlated Insulators, Metals, and Superconductors" 25 – 29 September 2017 Forschungszentrum Jülich, Germany.

Research Projects (Major Grants/Research Collaboration) (From 1st July 2017 onwards)

Fabrication and study of quantum magneto transport in topological insulator based nano-size devices (NPDF) IIT Delhi Aug 2017- Aug 2019.

Awards and Distinctions (From 1st July 2017 onwards)

National Post-Doctoral Fellowship (DST SERB).

Association With Professional Bodies

Other Activities like MOOCs/ Patents etc. (From 1st July 2017 onwards)

Signature of Faculty Member