

Bio-Data

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Education

Postdoctoral Fellow
Tata Institute of Fundamental Research-Mumbai.

Ph.D in Condensed Matter Physics
Indian Institute of Technology-Kanpur.

M.Sc in Physics
Indian Institute of Technology-Guwahati.

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Research Interest

Low temperature physics, magnetism, superconductivity, strongly correlated electron Systems.

Scholarships & Awards

- Junior Research Fellowship through National Eligibility Test, Council of Scientific and Industrial Research.
- Graduate Aptitude Test in Engineering 2008 conducted by IISC, Bangalore.

Topics Taught

Mathematical Methods, Waves and Vibrations, Solid State Physics, Tensor Analysis, Atomic and Molecular Physics, Undergraduate Experimental Physics, M.Sc. Experimental Physics.

List of Publications

1. Band structure and Fermi surfaces of the reentrant ferromagnetic superconductor $\text{Eu}(\text{Fe}_{0.86}\text{Ir}_{0.14})_2\text{As}_2$.
Submitted to **Phys. Rev. Letter**, (2017)
2. Tuning of magnetic order in Ge doped EuNi_2P_2 single crystals.
Journal of Physics: Condensed Matter **28**, 166001 (2016).

Continued....

3. Magnetic structures of the Eu and Cr moments in EuCr_2As_2 : Neutron diffraction study.
Phys. Rev. B **94**, 094411 (2016).
4. Coexistence of superconductivity and a charge density wave in $\text{LaPt}_2(\text{Si}_{1-x}\text{Ge}_x)_2$.
Journal of Physics: Condensed Matter **28**, 195702 (2016).
5. Gold in the Layered Structures of $\text{R}_3\text{Au}_7\text{Sn}_3$: From Relativity to Versatility.
Crystal growth & Design **16 (10)**, 5657 (2016).
6. μSR and neutron diffraction investigations on the reentrant ferromagnetic Superconductor $\text{Eu}(\text{Fe}_{0.86}\text{Ir}_{0.14})_2\text{As}_2$.
Phys. Rev. B **91**, 94427 (2015).
7. Itinerant and local-moment magnetism in EuCr_2As_2 single crystals.
Phys. Rev. B **89**, 144423 (2014).
8. Magnetic and superconducting properties of Ir-doped EuFe_2As_2 .
Supercond. Sci. Technol. **27**, 075012 (2014).
9. Heavy fermion and Kondo lattice behavior in the itinerant ferromagnet CeCrGe_3 .
Journal of Physics: Condensed Matter **26** 106001 (2014).
10. Reentrant Superconductivity in $\text{Eu}(\text{Fe}_{1-x}\text{Ir}_x)_2\text{As}_2$.
Journal of Physics: Condensed Matter **25**, 265701 (2013).
11. Valence fluctuation in $\text{CeMo}_2\text{Si}_2\text{C}$
Journal of Alloys and Compounds **580**, 435 (2013).
12. Density functional study on $\text{CeMo}_2\text{Si}_2\text{C}$.
AIP conf. Proceedings **1349** 1293 (2011).
13. Ferromagnetic ordering in CeIr_2B_2 : Transport, magnetization, specific-heat, and NMR studies.
Phys. Rev. B **86**, 014414 (2012).