

ICTS Seminar

- Title : Time-reversal symmetry breaking in superconductors
- Speaker : Sudeep Kumar Ghosh, University of Kent, Canterbury, UK
- Date : Tuesday, February 11, 2020
- Time : 11:30 am
- Venue : Emmy Noether Seminar Room, ICTS Campus, Bangalore
- Abstract : Superconductivity and magnetism are antagonistic states of matter. The presence of spontaneous magnetic fields inside the superconducting state is, therefore, an intriguing phenomenon prompting extensive experimental and theoretical research. In this talk, I will discuss our recent theoretical proposals of Loop-super current order [1] and Internally antisymmetric nonunitary triplet state [2] which can be realized in two different classes of these materials. We make predictions of definitive experimental signatures that are well within the reach of present experimental technology.
- [1] S. K. Ghosh et al. arXiv: 1803.02618.
- [2] S. K. Ghosh et al. arXiv: 1912.08160.