

ICTS Postdoc/Graduate Student Seminar Series

- Title : Emergent symmetries on the boundaries of symmetry-protected-topological phases
- Speaker : Abhishodh Prakash, ICTS-TIFR, Bangalore
- Date : Friday, May 10, 2019
- Time : 11:15 AM
- Venue : Emmy Noether Seminar Room, ICTS Campus, Bangalore
- Abstract : Symmetry-protected-topological (SPT) phases are a class of recently discovered gapped phases of matter that depend on global symmetries for their existence in a crucial way. They are characterized both theoretically and experimentally by the existence of some form of non-trivial boundary phenomena due to the presence of an anomaly. I will describe ongoing work concerning a particular manifestation of the non-trivial boundary- the emergence of new symmetries that are absent in the bulk. Particularly exciting are fermionic SPT phases, where, these emergent symmetries form a rudimentary type of supersymmetry!

Note: This will be an ongoing biweekly seminar series (Fridays, 11:15 am) by the ICTS postdocs and graduate students