

## **ICTS Condensed Matter Seminar**

- Title** : Quantum Hall ferromagnetism near charge neutrality in graphene
- Speaker** : Ganpathy Murthy (University of Kentucky, USA)
- Date** : Wednesday, 7th August 2024
- Time** : 11:30 AM (IST)
- Abstract** : Quantum Hall systems with internal degrees of freedom such as spin and valley can manifest symmetry breaking of the internal degrees of freedom when they are in a gapped quantum Hall phase. In graphene near charge neutrality, this is still poorly understood. I will present an overview of what is known about the integer fillings near charge neutrality, and then talk about some very recent work on the symmetry-broken phases of fractional quantum Hall states in the  $n=0$  and  $n=1$  Landau level manifolds of graphene.
- Venue** : Emmy Noether Seminar Room
- Zoom Link: <https://icts-res-in.zoom.us/j/94232144052?pwd=4oJmMzluYC7889NO0bWP8DyCbbSPGz.1>
- Meeting ID: 942 3214 4052
- Passcode: 202030