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TATA INSTITUTE OF FUNDAMENTAL RESEARCH

ICTS Seminar

- Title : Electromagnetic follow up of Gravitational Wave events
- Speaker : Gayathri Raman, ICTS-TIFR, Bangalore
- Date : Thursday, August 1, 2019
- Time : 11:00 AM
- Venue : Emmy Noether Seminar Room, ICTS Campus, Bangalore
- Abstract : GW170817 marked the first direct detection of a binary Neutron star merger. Such mergers are understood to be progenitors of bright UV-optical-IR transients known as Kilonovae (KN) as well as short Gamma-ray bursts (GRBs). In the first part of my talk, I will discuss similarities between KN and Type Ia supernovae and motivate our search for systematic variations in their light curves. In the latter part of my talk, I will discuss how we use the Large Area X-ray Proportional Counter (LAXPC) instrument onboard Astrosat, India's first multi-wavelength astronomy satellite mission, to explore X-ray afterglows of short GRBs as well as to constrain Neutron star spin measurements for sources of continuous GW.