

## **Internal Webinar**

### **Functional Oxide Based Interfaces for Spintronic Applications**

**Bhargav Rajyaguru**

**Saurashtra University, Rajkot**

In this talk, first of all I will discuss the literature that motivated me to select my research topic which mainly focuses on the transport properties of manganite based interfaces and their modifications using swift heavy ion (SHI) irradiation. The second part will introduce my research work that I have carried out during my M.Phil. and Ph.D. courses at Department of Physics, Saurashtra University, Rajkot in collaboration with scientists at IUAC, New Delhi and UGC-DAE CSR, Indore. During this second part, I will also briefly discuss about the fabrication of LN<sub>2</sub> based cryostat probe and its interface with various data acquisition devices (DAQs) to perform different transport measurements. The third part will shed a light on the outcomes and their analyses. At last, I will discuss about the present status of my research work, scope of the future work and how the facilities at TIFR-H and topics of current project can be beneficial for me in my future endeavours.

***Tuesday, Mar 28<sup>th</sup> 2023***

***12:00 Hrs***

