

# **Students' Annual Webinar**

## **Zero Field NMR and atomic magnetometers**

**George Kurian K K**

The talk will cover the details of zero-field NMR of solid samples with typical interactions like d-d coupling and quadrupolar coupling. Our attempts to measure the signals from such samples using our home-built atomic magnetometer will be discussed. We have achieved a sensitivity of less than 10 pT with an atomic magnetometer with a bandwidth close to 20 kHz. Also, the progress in measuring the magnetic field from batteries will be presented in the talk.

***Friday, Apr 8<sup>th</sup> 2022***

***11:30 AM***

***Class Room-4, TIFR-H***