

## **Internal Seminar**

### **Characterisation of Thin Film Materials**

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My talk presents a comprehensive overview of our research endeavours conducted over the past year. The investigations encompass a wide range of materials and experimental techniques, with a primary focus on the characterisation of thin films and magnetic materials. We delve into the optimisation of X-ray diffraction (XRD) setups for precise crystallographic analysis, explore the annealing processes for substrates like Strontium titanate and sapphire, and conduct thorough studies on the magnetic properties of materials such as Europium Sulphide (EuS) and various diradicals. Our findings shed light on critical structural and magnetic attributes, contributing to the understanding of these materials behaviour and potential applications in fields such as spintronics and topological insulators.

***Wednesday, Sep 20<sup>th</sup> 2023***

***10:30 AM***

***Venue: Classroom 1***