

Seminar

Higher order Van Hove singularities in quantum materials

Anirudh Chandrasekaran

MPI-FKF, Germany

In this talk, I will review the recent progress in the investigation of higher order Van Hove singularities in electronic band structure, with a special focus on layered quantum materials. After reviewing the mathematical basis of higher order singularities, I will discuss their relevance to the observable properties of 2D materials and their potential consequence for the onset of ordered phases. The broader problem of flat bands in tuned quantum materials will also be dealt with briefly at the end.

Thursday, Sep 18th 2025

16:00 Hrs (Tea / Coffee 15:45 Hrs)

Seminar Hall, TIFRH