

# **Seminar**

## **Case of FeSe: Nematicity and high-temperature superconductivity**

**Vivek Mishra**

**Oak Ridge National Laboratory, TN**

In this talk, I will discuss the superconductivity in FeSe. The recent discovery of robust superconductivity in some of the iron based superconductors where the hole band drops below the Fermi level raise questions for spin-fluctuation mediated superconductivity. FeSe is one of such systems close to a Lifshitz point. I will show that the spin-fluctuations can explain high transition temperatures in such systems. I will also discuss the role of nematic order and its interplay with superconductivity.

***Tuesday, Nov 14<sup>th</sup> 2017***

***03:00 PM (Tea/Coffee at 02:30 PM)***

***Class Room - 3, TIFR-H***