



SEMINAR

Multiple ground states of the transition-metal dichalcogenide TaS2

Prof. Amit Kanigel

Department of Physics Technion

Abstract

Low dimensional materials have been a major subject of interest in recent years. In particular, the transitions metal dichalcogenides (TMDs), quasi-2D layered materials with weak van der Waals coupling between layers, received a lot of attention. TMDs exhibit strong electron-electron and electron-phonon interactions that lead to complicated phase diagrams showing a variety of ground states.

In this talk I will describe the different types of TaS2. I will show evidence of a quantum spin liquid state in 1T-TaS2 and of topological superconductivity in 4Hb-TaS2.

> *12:30 בשעה 6.11.19 ביום רביעי, ה-הרצאה תתקיים ביום רביעי באודיטוריום המכון למצב מוצק, קומת כניסה The lecture will take place on Wednesday, 6.11.19 at 12:30* at the Solid State Institute auditorium, entrance floor

> > Host: Assistant Professor Yoav Sagi