CHROMATIC HOMOTOPY, K-THEORY AND FUNCTORS

CIRM, LUMINY, 23-27.01.2023

THRUSDAY 09:00 – 10:00, **Robert Burklund** (University of Copenhagen):

The Chromatic Nullstellensatz.

Hilbert's Nullstellensatz is a fundamental result in commutative algebra which is the starting point for classical algebraic geometry. In this talk, I will discuss a version of Hilbert's Nullstellensatz in chromatic homotopy theory, where Lubin-Tate theories play the role of algebraically closed fields. Time permitting, I will then indicate some of the applications of the chromatic nullstellensatz including to redshift for the algebraic K-theory of commutative algebras.
This is joint work with Tomer Schlank and Allen Yuan.