

# CHROMATIC HOMOTOPY, $K$ -THEORY AND FUNCTORS

CIRM, LUMINY, 23-27.01.2023

WEDNESDAY 09:00 – 10:00, **Manuel Krannich** (Karlsruhe Institute of Technology):

*Manifolds and calculus.*

I will give a survey of what is currently known about two attempts (based on two flavours of functor calculus) to study the moduli space of compact smooth  $d$ -manifolds beyond the “classical” range captured by surgery theory and stable pseudoisotopy theory.

This includes joint works with Kupers, with Randal-Williams, and with Goodwillie and Kupers.