

# CHROMATIC HOMOTOPY, $K$ -THEORY AND FUNCTORS

CIRM, LUMINY, 23-27.01.2023

MONDAY 15:30 – 16:30, **Lennart Meier** (University of Utrecht):

## *Equivariant Elliptic Cohomology.*

Inspired by the triad of rational, trigonometric and elliptic functions appearing in representation theory, Grojnowski defined in 1995 a higher analogue of equivariant ordinary cohomology and equivariant  $K$ -theory: equivariant elliptic cohomology. However, his approach only works over the complex numbers. Based on ideas of Lurie, David Gepner and I have recently defined equivariant elliptic cohomology without these restrictions. This allows in particular to refine topological modular forms to a genuine equivariant theory.