

# CRC Colloquium

15 July 2021 | 4:30 pm | hybrid event

**Prof. Dr. Arthur Bartels: K-theory everywhere**

We will give a gentle introduction to K-theory and discuss its relevance in geometric topology and elsewhere.

**Prof. Dr. Thomas Nikolaus: Relation to arithmetic cohomology theories**

We explain how K-theory is related to arithmetic cohomology theories (through topological periodic homology) and how this new found and surprising relation leads to advances in both areas. This relation is the foundational result for Project A4 in the CRC. It can for example be used to calculate K-theory, but it also lead to the newly developed prismatic cohomology theory (of Bhatt and Scholze).

**These two lectures will take place in the context of the Wilhelm Killing Colloquium as a hybrid event: the talks will be given on site and be delivered virtually via Zoom.**

**Zoom Meeting ID: 913 7047 4263**