

## Number Theory Seminar

# Algebraic cycles and their cohomology classes

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**ABSTRACT:** Algebraic cycles and their primary and secondary characteristic classes are a classical object of mathematical studies, just think of the Abel-Jacobi mapping for curves, given by integrals of holomorphic 1-forms over a bounding topological chain for a sum of points of formal degree zero. We will try to give an overview over recent approaches and results in algebraic geometry which allow to treat families of algebraic cycles in motivic cohomology groups over various base schemes such as Shimura varieties as examples.

**Date:** Friday, 12.01.2007 at 14.15pm

**Place:** HWZ (HG G43)

G. Wüstholtz