

## Algebraic K-theory and Trace Methods (1/3)

*lundi 6 juillet 2020 15:30 (1 heure)*

Algebraic K-theory is an invariant of rings and ring spectra which illustrates a fascinating interplay between algebra and topology. Defined using topological tools, this invariant has important applications to algebraic geometry, number theory, and geometric topology. One fruitful approach to studying algebraic K-theory is via trace maps, relating algebraic K-theory to (topological) Hochschild homology, and (topological) cyclic homology. In this mini-course I will introduce algebraic K-theory and related Hochschild invariants, and discuss recent advances in this area. Topics will include cyclotomic spectra, computations of the algebraic K-theory of rings, and equivariant analogues of Hochschild invariants.

### Summary

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