ID de Contribution: 6

Type: Non spécifié

Perfectoid Cohen-Macaulay rings and homological aspects of commutative algebra in mixed characteristic

mardi 12 juin 2018 14:30 (1 heure)

The homological turn in commutative algebra due to Auslander and Serre was pushed forward by Peskine and Szpiro with a systematic use of the Frobenius functor, which led to tight closure theory, a powerful instrument developed by Hochster and Huneke to study singularities in characteristic p. We shall report on recent advances in the mixed characteristic case, where perfectoid Cohen-Macaulay algebras play the role of absolute integral closures in characteristic p, and lead to a mixed characteristic analog of tight closure theory.

Orateur: ANDRÉ, Y. (CNRS & IMJ-PRG)