Séminaire de théorie des nombres

Le 13 février 2023 à 14h (Jussieu)

p-adic Hodge theory for rigid-analytic varieties

Exposé de Guido Bosco
(IMJ-PRG)

Résumé : Following a conjecture of Le Bras, I will explain the construction of a cohomology theory for rigid-analytic varieties over C_p (without properness nor smoothness assumptions), taking values in the category of filtered quasi-coherent complexes over the Fargues-Fontaine curve, which interpolates between other known rational p-adic cohomology theories for rigid-analytic varieties : namely, the rational p-adic pro-étale cohomology, the Hyodo-Kato cohomology defined by Colmez-Niziol, and the infinitesimal cohomology over the positive de Rham period ring. If time permits, I will also report on an expected integral variant of such cohomology theory.