

Séminaire de théorie des nombres

Le 10 mars 2025 à 14h (Jussieu)

Duality for Arithmetic p -adic Pro-etale Cohomology of Analytic Spaces

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Résumé : Let K be a finite extension of \mathbb{Q}_p . We prove that the arithmetic p -adic pro-etale cohomology of smooth partially proper spaces over K satisfies a duality, as conjectured by Colmez-Gilles-Niziol. I will begin by providing some motivation for this question. Then I will explain how the cohomology is related to sheaves on the Fargues-Fontaine curve and how to deduce the result from the 'Poincare duality on the Fargues-Fontaine curve'.