

A p -Adic 6-Functor Formalism on Rigid-Analytic Varieties

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Using Clausen–Scholze’s theory of condensed mathematics, we construct a full 6-functor formalism for p -adic sheaves on rigid-analytic varieties. As a special case of this formalism we obtain Poincaré duality for the étale \mathbb{F}_p -cohomology of smooth proper rigid-analytic varieties. By applying the formalism to classifying stacks of p -adic groups, we obtain new insights into the p -adic Langlands program.