

Relative Poincaré Duality in Non Archimedean Geometry

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In my talk, I will explain a relative version of mod- p Poincaré duality for any proper morphism of rigid-analytic varieties over a p -adic field. A key ingredient in the proof will be a novel construction of trace maps for smooth morphisms and for proper morphisms of rigid-analytic varieties. Along the way, I will sketch a new and essentially diagrammatic proof of mod- p Poincaré duality for smooth and proper morphisms. Joint work with Shizhang Li and Bogdan Zavyalov.

Orateur: REINECKE, Emanuel (IHES)