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Foundations of perfectoid spaces.

Foundations of perfectoid spaces.

(Notes for some talks in the

Fargues{Fontaine curve study

group at Harvard, Oct./Nov. 2017)

Matthew Morrow (you can find me

in office 539 in the Science Center)

Abstract We give a reasonably

detailed overview of the various

tilting correspondences for per-

fectoid rings, the almost purity

theorem, almost vanishing

theorems, etc.

Foundations of perfectoid spaces

- *School of Mathematics*

In mathematics, perfectoid

spaces are adic spaces of special

kind, which occur in the study of

problems of "mixed

characteristic", such as local

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fields of characteristic zero which have residue fields of characteristic prime p . A perfectoid field is a complete topological field K whose topology is induced by a nondiscrete valuation of rank 1, such that the Frobenius endomorphism Φ is surjective on K°/p where K° denotes the ring of power-bounded elements. Perfectoid spaces may be used to ...

Perfectoid space - Wikipedia

A review of the foundations of perfectoid spaces. A review of the foundations of perfectoid spaces. (Notes for some talks in the Fargues{Fontaine curve study group at Harvard, Oct./Nov. 2017) Matthew Morrow. Abstract We give a reasonably detailed

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overview of the various tilting correspondences for perfectoid rings, the almost purity theorem, almost vanishing theorems, etc.

A review of the foundations of perfectoid spaces

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Now an adic perfectoid space is associated to a perfectoid adic K-algebra, which is a pair $(R; R^+)$, where R is a perfectoid K-algebra, and $R^+ \subset R$ is open and integrally closed (and often $R^+ = R$). There is a natural way to form the tilt $(R^\flat; R^{\flat,+})$. To such a pair $(R; R^+)$, Huber, [18], associates a space $X = \text{Spa}(R; R^+)$ of equivalence classes of

PERFECTOID SPACES - uni-bonn.de

A perfectoid space is an object of CLVRS which is locally isomorphic to $\text{Spa}(A)$ with A a perfectoid ring. Note however that CLVRS is a full subcategory of the category

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`PreValuedRingedSpace` of topological spaces equipped with a presheaf of topological rings and a valuation on each stalk, so the isomorphism can be checked in PreValuedRingedSpace instead, which is what we do.

Lean perfectoid spaces - GitHub Pages

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Foundations Of Perfectoid Spaces
Using Huber's formalism of adic spaces and Scholze's formalism of perfectoid spaces, we globalize

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the constructions to give several descriptions of the étale local systems on analytic spaces over p -adic fields. One of these descriptions uses a relative version of the Fargues-Fontaine curve.

[1301.0792] Relative p -adic

Hodge theory: Foundations

Download PDF Abstract: We

introduce a certain class of so-called perfectoid rings and spaces, which give a natural

framework for Faltings' almost purity theorem, and for which

there is a natural tilting operation which exchanges characteristic 0 and characteristic p . We deduce

the weight-monodromy conjecture in certain cases by

reduction to equal characteristic.

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[1111.4914] Perfectoid spaces - arXiv.org

About Me: I am a postdoctoral scholar at UC Berkeley as part of the Research Training Group in Arithmetic Geometry. My mathematical research lives at the intersection of algebraic geometry and number theory, and centers around nonarchimedean and rigid analytic geometry, with a particular emphasis on establishing the geometric foundations of perfectoid spaces.

Homepage of Gabriel Dorfsman-Hopkins

Number theory learning seminar 2014-2015 In the winter and spring the seminar will meet

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Mondays 2:30--4:30pm in Room 384I on the first week of winter, and 384H in subsequent weeks. This year's seminar will focus on the perfectoid spaces.

Number theory learning seminar - Mathematics

This makes many results accessible over elds such as $F_p((t))$, which are wide open over elds of arithmetic interest such as \mathbb{Q}_p . The theory of perfectoid spaces was initially designed as a means of transporting information available over $F_p((t))$ to \mathbb{Q}_p , but has since found a number of independent applications.

Perfectoid Spaces and their Applications

Since their introduction just two

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years ago, perfectoid spaces have played a crucial role in a number of striking advances in arithmetic algebraic geometry: the proof of Deligne's weight-monodromy conjecture for complete intersections in toric varieties; the development of p -adic Hodge theory for rigid analytic spaces; a p -adic analogue of Riemann's classification of abelian varieties over the complex numbers; and the construction of Galois representations for torsion classes in the ...

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