

## Foundations Of Perfectoid Spaces

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## *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 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  $\varphi$  is surjective on  $K^\circ/p$  where  $K^\circ$  denotes the ring of power-bounded elements. Perfectoid spaces may be used to ...

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## *Foundations Of Perfectoid Spaces*

Now an a noid perfectoid space is associated to a perfectoid a noid  $K$ -algebra, which is a pair  $(R; R_+)$ , where  $R$  is a perfectoid  $K$ -algebra, and  $R_+ \hat{=} R$  is open and integrally closed (and often  $R_+ = R$ ). There is a natural way to form the tilt  $(R[\![R_+]\!])$ . 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  $\text{CLVRS}$  which is locally isomorphic to  $\text{Spa}(A)$  with  $A$  a perfectoid ring. Note however that  $\text{CLVRS}$  is a full subcategory of the category  $\text{PreValuedRingedSpace}$  of topological spaces equipped with a presheaf of topological rings and a valuation on each stalk, so the isomorphism can be checked in  $\text{PreValuedRingedSpace}$

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*Foundations Of Perfectoid Spaces*

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

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.

*[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 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 fields such as  $F_p((t))$ , which are wide open over fields 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.

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## *Perfectoid Spaces and their Applications*

Since their introduction just two 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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