

1104-11-2

**Kiran S. Kedlaya\*** ([kedlaya@ucsd.edu](mailto:kedlaya@ucsd.edu)), Department of Mathematics, University of California, San Diego, 9500 Gilman Drive #0112, La Jolla, CA 92093. *A brief history of perfectoid spaces.*

The theory of perfectoid spaces has recently emerged in arithmetic geometry as a bridge between characteristics, which makes it possible to take advantage in characteristic 0 of the existence of the Frobenius endomorphism in positive characteristic. We trace the evolution of this idea through the past half-century via results of Tate, Fontaine, Faltings, the presenter, and Scholze. (Received August 27, 2014)