

Arithmetic and Algebraic Geometry: A conference in honor of Ofer Gabber
on the occasion of his 60th birthday

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p-adic K-theory of p-adic rings

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The original proof of Grothendieck's purity conjecture in étale cohomology (the Thomason-Gabber theorem) relies on results on ℓ -adic K-theory and its relation to étale cohomology when ℓ is invertible. Using recent advances of Clausen-Mathew-Morrow and joint work with Bhatt and Morrow, our understanding in the complementary case of p-adic K-theory of p-adic rings has reached a similar level. In particular, we can express p-adic étale K-theory in terms of the cohomology theories of integral p-adic Hodge theory, such as the prismatic cohomology discussed in Bhatt's talk. Depending on time, I may indicate some possible applications.

Orateur: SCHOLZE, P. (Universität Bonn)