

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

Tuesday, June 12, 2018 11:45 AM (1 hour)

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.

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