

Theory of weights in p -adic cohomology

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Abstract : Let k be a finite field of characteristic $p > 0$. We construct a theory of weights for overholonomic complexes of arithmetic D -modules with Frobenius structure on varieties over k . The notion of weight behave like Deligne's one in the ℓ -adic framework : first, the six operations preserve weights, and secondly, the intermediate extension of an immersion preserves pure complexes and weights.

This is joint work with Tomoyuki Abe.