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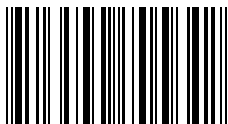
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Mathematics : Algebraic Geometry

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Weight Filtrations on Log Crystalline Cohomologies of Families of Open Smooth Varieties

In this volume, the authors construct a theory of weights on the log crystalline cohomologies of families of open smooth varieties in characteristic $p > 0$, by defining and constructing four filtered complexes. Fundamental properties of these filtered complexes are proved, in particular the p -adic purity, the functionality of three filtered complexes, the weight-filtered base change formula, the weight-filtered Künneth formula, the weight-filtered Poincaré duality, and the E_2 -degeneration of p -adic weight spectral sequences. In addition, the authors state some theorems on the weight filtration and the slope filtration on the rigid cohomology of a separated scheme of finite type over a perfect field of characteristic $p > 0$.

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