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   Nota di bibliografia   Includes bibliographical references and index.

   Nota di contenuto   Preliminaries on Filtered Derived Categories and Topoi -- Weight Filtrations on Log Crystalline Cohomologies -- Weight Filtrations and Slope Filtrations on Rigid Cohomologies (Summary).

   Sommario/riassunto 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 E2-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.