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| 1. Record Nr.           | UNISA996466382203316                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Autore                  | Nakkajima Yuki Yoshi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Titolo                  | Weight filtrations on log crystalline cohomologies of families of open smooth varieties / / Yuki Yoshi Nakkajima, Atsushi Shiho                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Pubbl/distr/stampa      | Berlin ; ; Heidelberg : , : Springer-Verlag, , [2008]<br>©2008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ISBN                    | 3-540-70565-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Edizione                | [1st ed. 2008.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Descrizione fisica      | 1 online resource (X, 272 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Collana                 | Lecture Notes in Mathematics ; ; Volume 1959                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Disciplina              | 512                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Soggetti                | Varieties (Universal algebra)<br>Filters (Mathematics)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Note generali           | Bibliographic Level Mode of Issuance: Monograph                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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 $p > 0$ . |