

1. Record Nr.	UNISALENTO991002946999707536
Autore	Kirschner, Tim
Titolo	Period mappings with applications to symplectic complex spaces / Tim Kirschner
Pubbl/distr/stampa	Cham : Springer, [2015]
ISBN	9783319175201
Descrizione fisica	xviii, 275 p. : ill. ; 24 cm
Collana	Lecture notes in mathematics, 0075-8434 ; 2140
Classificazione	AMS 32G20 AMS 14F05 AMS 32C35 AMS 53D05 LC QA564.K52
Disciplina	516.35
Soggetti	Geometry, Algebraic Numbers, Complex Symplectic spaces
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references
Sommario/riassunto	Extending Griffiths classical theory of period mappings for compact Kähler manifolds, this book develops and applies a theory of period mappings of Hodge-de Rham type for families of open complex manifolds. The text consists of three parts. The first part develops the theory. The second part investigates the degeneration behavior of the relative Frölicher spectral sequence associated to a submersive morphism of complex manifolds. The third part applies the preceding material to the study of irreducible symplectic complex spaces. The latter notion generalizes the idea of an irreducible symplectic manifold, dubbed an irreducible hyperkähler manifold in differential geometry, to possibly singular spaces. The three parts of the work are of independent interest, but intertwine nicely