1. Record Nr. UNINA9910151934803321

Autore	Seidel Paul
Titolo	Fukaya Categories and Picard-Lefschetz Theory [[electronic resource] /] / Paul Seidel
Pubbl/distr/stampa	Zuerich, Switzerland, : European Mathematical Society Publishing House, 2008
ISBN	3-03719-563-0
Descrizione fisica	1 online resource (334 pages)
Collana	Zurich Lectures in Advanced Mathematics (ZLAM)
Classificazione	53-xx16-xx32-xx
Soggetti	Differential & Riemannian geometry Differential geometry Associative rings and algebras Several complex variables and analytic spaces
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The central objects in the book are Lagrangian submanifolds and their invariants, such as Floer homology and its multiplicative structures, which together constitute the Fukaya category. The relevant aspects of pseudo-holomorphic curve theory are covered in some detail, and there is also a self-contained account of the necessary homological algebra. Generally, the emphasis is on simplicity rather than generality. The last part discusses applications to Lefschetz fibrations, and contains many previously unpublished results. The book will be of interest to graduate students and researchers in symplectic geometry and mirror symmetry. Winner 2010 AMS Veblen Prize in Geometry.