

1. Record Nr.	UNISA996466496103316
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Titolo	The Dirac Spectrum [[electronic resource] /] / by Nicolas Ginoux
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2009
ISBN	1-280-38432-8 9786613562241 3-642-01570-0
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (XV, 156 p.)
Collana	Lecture Notes in Mathematics, , 0075-8434 ; ; 1976
Classificazione	35P1553C2758C4058J3258J50 MAT 358f MAT 537f MAT 580f SI 850
Disciplina	530.143
Soggetti	Global analysis (Mathematics) Manifolds (Mathematics) Differential geometry Partial differential equations Global Analysis and Analysis on Manifolds Differential Geometry Partial Differential Equations
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	Basics of spin geometry -- Explicit computations of spectra -- Lower eigenvalue estimates on closed manifolds -- Lower eigenvalue estimates on compact manifolds with boundary -- Upper eigenvalue bounds on closed manifolds -- Prescription of eigenvalues on closed manifolds -- The Dirac spectrum on non-compact manifolds -- Other topics related with the Dirac spectrum.
Sommario/riassunto	This volume surveys the spectral properties of the spin Dirac operator. After a brief introduction to spin geometry, we present the main known estimates for Dirac eigenvalues on compact manifolds with or without boundaries. We give examples where the spectrum can be made

explicit and present a chapter dealing with the non-compact setting. The methods mostly involve elementary analytical techniques and are therefore accessible for Master students entering the subject. A complete and updated list of references is also included.

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