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Autore	Bottazzini, Umberto
Titolo	Pitagora, il padre di tutti i teoremi : $[a^2+b^2=c^2]$ / Umberto Bottazzini
Pubbl/distr/stampa	Bologna, : Il mulino, 2020
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Collana	Formule per leggere il mondo
Disciplina	182.2
Locazione	FLFBC
Collocazione	182.2 BOTU 01
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNISA996466549803316
Autore	Kha Minh
Titolo	Liouville-Riemann-Roch theorems on Abelian coverings // Minh Kha, Peter Kuchment
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Descrizione fisica	1 online resource (XII, 96 p. 2 illus., 1 illus. in color.)
Collana	Lecture Notes in Mathematics ; ; Volume 2245
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Soggetti	Differential equations, Elliptic Riemann-Roch theorems
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preliminaries -- The Main Results -- Proofs of the Main Results --

Sommario/riassunto

This book is devoted to computing the index of elliptic PDEs on non-compact Riemannian manifolds in the presence of local singularities and zeros, as well as polynomial growth at infinity. The classical Riemann–Roch theorem and its generalizations to elliptic equations on bounded domains and compact manifolds, due to Maz'ya, Plameneskii, Nadirashvili, Gromov and Shubin, account for the contribution to the index due to a divisor of zeros and singularities. On the other hand, the Liouville theorems of Avellaneda, Lin, Li, Moser, Struwe, Kuchment and Pinchover provide the index of periodic elliptic equations on abelian coverings of compact manifolds with polynomial growth at infinity, i.e. in the presence of a "divisor" at infinity. A natural question is whether one can combine the Riemann–Roch and Liouville type results. This monograph shows that this can indeed be done, however the answers are more intricate than one might initially expect. Namely, the interaction between the finite divisor and the point at infinity is non-trivial. The text is targeted towards researchers in PDEs, geometric analysis, and mathematical physics.