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Autore	Alexakis Spyros <1978->
Titolo	The decomposition of global conformal invariants [[electronic resource] /] / Spyros Alexakis
Pubbl/distr/stampa	Princeton, : Princeton University Press, 2012
ISBN	1-280-49429-8 9786613589521 1-4008-4272-7
Edizione	[Course Book]
Descrizione fisica	1 online resource (460 p.)
Collana	Annals of mathematics studies ; ; no. 182
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front matter -- Contents -- Acknowledgments -- 1. Introduction -- 2. An Iterative Decomposition of Global Conformal Invariants: The First Step -- 3. The Second Step: The Fefferman-Graham Ambient Metric and the Nature of the Decomposition -- 4. A Result on the Structure of Local Riemannian Invariants: The Fundamental Proposition -- 5. The Inductive Step of the Fundamental Proposition: The Simpler Cases -- 6. The Inductive Step of the Fundamental Proposition: The Hard Cases, Part I -- 7. The Inductive Step of the Fundamental Proposition: The Hard Cases, Part II -- A. Appendix -- Bibliography -- Index of Authors and Terms -- Index of Symbols
Sommario/riassunto	This book addresses a basic question in differential geometry that was first considered by physicists Stanley Deser and Adam Schwimmer in 1993 in their study of conformal anomalies. The question concerns conformally invariant functionals on the space of Riemannian metrics over a given manifold. These functionals act on a metric by first constructing a Riemannian scalar out of it, and then integrating this scalar over the manifold. Suppose this integral remains invariant under conformal re-scalings of the underlying metric. What information can one then deduce about the Riemannian scalar? Deser and Schwimmer asserted that the Riemannian scalar must be a linear combination of

	three obvious candidates, each of which clearly satisfies the required property: a local conformal invariant, a divergence of a Riemannian vector field, and the Chern-Gauss-Bonnet integrand. This book provides a proof of this conjecture. The result itself sheds light on the algebraic structure of conformal anomalies, which appear in many settings in theoretical physics. It also clarifies the geometric significance of the renormalized volume of asymptotically hyperbolic Einstein manifolds. The methods introduced here make an interesting connection between algebraic properties of local invariants--such as the classical Riemannian invariants and the more recently studied conformal invariants--and the study of global invariants, in this case conformally invariant integrals. Key tools used to establish this connection include the Fefferman-Graham ambient metric and the author's super divergence formula.

2.

Record Nr.	UNIORUON00300776
Autore	CANFIELD, Dorothea Frances
Titolo	Corneille and Racine in England : a study of the English translations of the two Corneilles and Racine, with especial reference to their presentation on the English stage / by Dorothea Frances Canfield
Pubbl/distr/stampa	New York, : AMS Press, 1966
Descrizione fisica	xiii, 295 p. ; 23 cm.
Disciplina	792.0942
Soggetti	RACINE JEAN CORNEILLE THOMAS CORNEILLE PIERRE
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