

1. Record Nr.	UNISA996575169903316
Titolo	2022 International Conference on Asian Language Processing (IALP) // Institute of Electrical and Electronics Engineers ; Rong Tong, editor
Pubbl/distr/stampa	Piscataway, New Jersey : , : IEEE, , 2022
ISBN	1-66547-674-5
Descrizione fisica	1 online resource : illustrations
Disciplina	495.1
Soggetti	Chinese language
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	The International Conference on Asian Language Processing (IALP) is the flagship conference of the Chinese and Oriental Languages Information Processing Society (COLIPS) The conference aims to advance the science and technology of all the aspects of Asian Language Processing by providing a forum for researchers in the different fields of language study to meet The topics of the conference covers Natural Language Processing, Spoken Language Processing, Computational Linguistics, Language Education, etc.

2. Record Nr.	UNINA9910969801603321
Autore	Bismut Jean-Michel
Titolo	Hypoelliptic Laplacian and orbital integrals // Jean-Michel Bismut
Pubbl/distr/stampa	Princeton, : Princeton University Press, 2011
ISBN	9786613163875 9781283163873 128316387X 9781400840571 1400840570
Edizione	[Course Book]
Descrizione fisica	1 online resource (320 p.)
Collana	Annals of mathematics studies ; ; no. 177
Disciplina	515.7242
Soggetti	Differential equations, Hypoelliptic Laplacian operator Definite integrals Orbit method
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 indexes.
Nota di contenuto	Frontmatter -- Contents -- Acknowledgments -- Introduction -- Chapter One. Clifford and Heisenberg algebras -- Chapter Two. The hypoelliptic Laplacian on $X = G/K$ -- Chapter Three. The displacement function and the return map -- Chapter Four. Elliptic and hypoelliptic orbital integrals -- Chapter Five. Evaluation of supertraces for a model operator -- Chapter Six. A formula for semisimple orbital integrals -- Chapter Seven. An application to local index theory -- Chapter Eight. The case where $[k(\cdot); p_0] = 0$ -- Chapter Nine. A proof of the main identity -- Chapter Ten. The action functional and the harmonic oscillator -- Chapter Eleven. The analysis of the hypoelliptic Laplacian -- Chapter Twelve. Rough estimates on the scalar heat kernel -- Chapter Thirteen. Refined estimates on the scalar heat kernel for bounded $b$ -- Chapter Fourteen. The heat kernel $q_{Xb;t}$ for bounded $b$ -- Chapter Fifteen. The heat kernel $q_{Xb;t}$ for $b$ large -- Bibliography -- Subject Index -- Index of Notation
Sommario/riassunto	This book uses the hypoelliptic Laplacian to evaluate semisimple orbital

integrals in a formalism that unifies index theory and the trace formula. The hypoelliptic Laplacian is a family of operators that is supposed to interpolate between the ordinary Laplacian and the geodesic flow. It is essentially the weighted sum of a harmonic oscillator along the fiber of the tangent bundle, and of the generator of the geodesic flow. In this book, semisimple orbital integrals associated with the heat kernel of the Casimir operator are shown to be invariant under a suitable hypoelliptic deformation, which is constructed using the Dirac operator of Kostant. Their explicit evaluation is obtained by localization on geodesics in the symmetric space, in a formula closely related to the Atiyah-Bott fixed point formulas. Orbital integrals associated with the wave kernel are also computed. Estimates on the hypoelliptic heat kernel play a key role in the proofs, and are obtained by combining analytic, geometric, and probabilistic techniques. Analytic techniques emphasize the wavelike aspects of the hypoelliptic heat kernel, while geometrical considerations are needed to obtain proper control of the hypoelliptic heat kernel, especially in the localization process near the geodesics. Probabilistic techniques are especially relevant, because underlying the hypoelliptic deformation is a deformation of dynamical systems on the symmetric space, which interpolates between Brownian motion and the geodesic flow. The Malliavin calculus is used at critical stages of the proof.

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