

Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of Mathematics Studies)

Jean-Michel Bismut



<u>Click here</u> if your download doesn"t start automatically

Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of Mathematics Studies)

Jean-Michel Bismut

Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of Mathematics Studies) Jean-Michel Bismut

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.

<u>Download</u> Hypoelliptic Laplacian and Orbital Integrals (AM-1 ...pdf</u>

Read Online Hypoelliptic Laplacian and Orbital Integrals (AM ...pdf

Download and Read Free Online Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of Mathematics Studies) Jean-Michel Bismut

From reader reviews:

Loretta Manson:

Reading a guide can be one of a lot of exercise that everyone in the world enjoys. Do you like reading book so. There are a lot of reasons why people like it. First reading a guide will give you a lot of new facts. When you read a reserve you will get new information since book is one of a number of ways to share the information as well as their idea. Second, studying a book will make an individual more imaginative. When you reading a book especially hype book the author will bring someone to imagine the story how the people do it anything. Third, it is possible to share your knowledge to some others. When you read this Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of Mathematics Studies), you could tells your family, friends and soon about yours publication. Your knowledge can inspire the mediocre, make them reading a publication.

Lisa Lee:

Don't be worry should you be afraid that this book will certainly filled the space in your house, you could have it in e-book means, more simple and reachable. This particular Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of Mathematics Studies) can give you a lot of good friends because by you looking at this one book you have matter that they don't and make you more like an interesting person. This kind of book can be one of one step for you to get success. This guide offer you information that maybe your friend doesn't realize, by knowing more than other make you to be great individuals. So , why hesitate? Let's have Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of Mathematics Studies).

Jessica Duncan:

You may get this Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of Mathematics Studies) by go to the bookstore or Mall. Simply viewing or reviewing it could to be your solve difficulty if you get difficulties for ones knowledge. Kinds of this e-book are various. Not only by means of written or printed but also can you enjoy this book simply by e-book. In the modern era like now, you just looking from your mobile phone and searching what their problem. Right now, choose your own ways to get more information about your book. It is most important to arrange you to ultimately make your knowledge are still update. Let's try to choose correct ways for you.

Morgan Johnson:

Reading a publication make you to get more knowledge from the jawhorse. You can take knowledge and information originating from a book. Book is created or printed or descriptive from each source which filled update of news. In this modern era like at this point, many ways to get information are available for anyone. From media social such as newspaper, magazines, science publication, encyclopedia, reference book, novel and comic. You can add your knowledge by that book. Ready to spend your spare time to spread out your book? Or just trying to find the Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of

Download and Read Online Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of Mathematics Studies) Jean-Michel Bismut #8YXN57MT0W2

Read Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of Mathematics Studies) by Jean-Michel Bismut for online ebook

Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of Mathematics Studies) by Jean-Michel Bismut Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of Mathematics Studies) by Jean-Michel Bismut books to read online.

Online Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of Mathematics Studies) by Jean-Michel Bismut ebook PDF download

Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of Mathematics Studies) by Jean-Michel Bismut Doc

Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of Mathematics Studies) by Jean-Michel Bismut Mobipocket

Hypoelliptic Laplacian and Orbital Integrals (AM-177) (Annals of Mathematics Studies) by Jean-Michel Bismut EPub