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Integral Geometry Methods in the Geometrical Langlands Program

Description **E-Book** **Author(s) Information**

The book is divided on the studied aspects in integral geometry and that are of interest in field theory, at least, to the solution or obtaining of integrals to the field equations corresponding to the moduli stacks planted. In the chapters 1, 2, 3, 4, are exposed the generalizations of the Penrose transforms with a good D-modules theory in derived categories context and their deformations. In the chapters 5, and 6, are exposed and discussed the differ classification problems and their implications in the differential operators to the field equations. Finally, in chapters 7, and 8 are exposed the aspects of the geometrical ramification of field ramification going behold holomorphicity.

In the end of the book are included several research exercises that can be discussed and exposed ins postgraduate courses in derived geometry or related as derived categories or categories on commutative and n commutative rings.

Sample Chapter(s)
Chapter 1: Introduction (365 KB)

Components of the Book:

- **FRONT MATTER**
- **Chapter 1: Introduction**
- **Chapter 2: Derived Categories in Geometrical Langlands Ramification Problem**
- **Chapter 3: From the Hecke Categories to Twisted Hecke Categories**
- **Chapter 4: Penrose Transform Framework and Their Moduli Identities**
- **Chapter 5: Extending by Field Geometrical Integration: Self-Extensions of Verma Modules**
- **Chapter 6: Some Results on Geometrical Correspondences in the Geometrical Langlands Program**
- **Chapter 7: Some Results of the Generalized Penrose Transforms Applied to Holomorphic Vector Bundles with Extended Connections**
- **Chapter 8: Integral Geometry Behold of the Holomorphicity**
- **BACK MATTER**

Readership: Students, academics, teachers and other people attending or interested in Integral Geometry Methods in the Geometrical Langlands Program