## Radon Transforms and the Rigidity of the Grassmannians

Jacques Gasqui and Hubert Goldschmidt

**R** Barnett

Geometric Analysis and Integral Geometry Eric Todd Quinto, Fulton Gonzalez, Jens Gerlach Christensen, 2013 This volume contains the proceedings of the AMS Special Session on Radon Transforms and Geometric Analysis in honour of Sigurdur Helgason's 85th Birthday held from January 4 7 2012 in Boston MA and the Tufts University Workshop on Geometric Analysis on Euclidean and Homogeneous Spaces held from January 8 9 2012 in Medford MA This volume provides an historical overview of several decades in integral geometry and geometric analysis as well as recent advances in these fields and closely related areas It contains several articles focusing on the mathematical work of Sigurdur Helgason including an overview of his research by Gestur Olafsson and Robert Stanton The first article in the volume contains Helgason s own reminiscences about the development of the group theoretical aspects of the Radon transform and its relation to geometric analysis Other contributions cover Radon transforms harmonic analysis Penrose transforms representation theory wavelets partial differential operators on groups and inverse problems in tomography and cloaking that are related to integral geometry Many articles contain both an overview of their respective fields as well as new research results The volume will therefore appeal to experienced researchers as well as a younger generation of mathematicians With a good blend of pure and applied topics the volume will be a valuable source for interdisciplinary research **Radon Transforms and the** Rigidity of the Grassmannians (AM-156) Jacques Gasqui, Hubert Goldschmidt, 2009-01-10 This book provides the first unified examination of the relationship between Radon transforms on symmetric spaces of compact type and the infinitesimal versions of two fundamental rigidity problems in Riemannian geometry Its primary focus is the spectral rigidity problem Can the metric of a given Riemannian symmetric space of compact type be characterized by means of the spectrum of its Laplacian It also addresses a question rooted in the Blaschke problem Is a Riemannian metric on a projective space whose geodesics are all closed and of the same length isometric to the canonical metric. The authors comprehensively treat the results concerning Radon transforms and the infinitesimal versions of these two problems Their main result implies that most Grassmannians are spectrally rigid to the first order This is particularly important for there are still few isospectrality results for positively curved spaces and these are the first such results for symmetric spaces of compact type of rank 1 The authors exploit the theory of overdetermined partial differential equations and harmonic analysis on symmetric spaces to provide criteria for infinitesimal rigidity that apply to a large class of spaces A substantial amount of basic material about Riemannian geometry symmetric spaces and Radon transforms is included in a clear and elegant presentation that will be useful to researchers and advanced students in differential geometry

Whispering the Secrets of Language: An Psychological Quest through Radon Transforms And The Rigidity Of The Grassmannians Am 156 Annals Of Mathematics Studies

In a digitally-driven world where displays reign great and instant conversation drowns out the subtleties of language, the profound strategies and emotional nuances concealed within phrases usually get unheard. Yet, set within the pages of **Radon Transforms And The Rigidity Of The Grassmannians Am 156 Annals Of Mathematics Studies** a captivating fictional prize pulsing with fresh thoughts, lies a fantastic journey waiting to be undertaken. Published by a skilled wordsmith, that enchanting opus encourages visitors on an introspective trip, softly unraveling the veiled truths and profound affect resonating within the very fabric of each word. Within the mental depths of this poignant evaluation, we can embark upon a heartfelt exploration of the book is core styles, dissect their interesting publishing fashion, and yield to the effective resonance it evokes heavy within the recesses of readers hearts.

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