HARMONIC ANALYSIS ON COMPACT POLAR HOMOGENEOUS SPACES

JING-SONG HUANG

In this paper we are concerned with the existence of dis-
crete series for semisimple homogeneous spaces. This leads
to the definition of polar homogeneous spaces. We first study
the harmonic analysis on compact polar homogeneous spaces.
The proof of the existence of disrete series and the Plancherel
formula for non-compact and non-symmetric polar homoge-
neous spaces will be given in a consequent paper.

1. Introduction.

One of the greatest achievements of mathematics in twentieth century is
Harish-Chandra's work on discrete series for semisimple Lie groups. Sup-
pose G is a semisimple Lie group with a maximal compact Lie group K.
Harish-Chandra proved that G has discrete series if and only if the real
rank of G is equal to the rank of K ([**HC**]). In other words, G has discrete
series if and only if G has a compact Cartan subgroup. Harish-Chandra
also obtained a classification of the discrete series for semisimple Lie groups.
Harish-Chandra's results on discrete series have been generalized to semisim-
ple symmetric spaces. Flensted-Jensen ([**FJ**]) proved that a semisimple sym-
metric space G/H has discrete series if

$$(1.1) \qquad \text{rank of } G/H = \text{ rank of } K/K \cap H.$$

Later on Oshima and Matsuki ([**OM**]) proved if G/H has discrete series
then it must satisfy the rank condition (1.1). That is to say, the semisimple
symmetric space G/H has discrete series if and only if it has a compact
Cartan subspace. Othima and Matsuki also gave a description of all discrete
series for semisimple symmetric spaces. Since the group G can be regarded
as symmetric space $G \times G/d(G)$, the results of Flensted-Jensen, Othima and
Matsuki are the generalizations of Harish-Chandra's work.

If G is a semisimple Lie group and H a closed reductive subgroup, it
is very natural to ask the following question: when does the semisimple
homogeneous space G/H has discrete series? Based on the observation of
the results mentioned above, we would guess G/H has discrete series if

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Harmonic Analysis On Homogeneous Spaces And Hardys Theorem:

An Introduction to the Uncertainty Principle Sundaram Thangavelu,2012-12-06 In 1932 Norbert Wiener gave a series of lectures on Fourier analysis at the Univer sity of Cambridge One result of Wiener s visit to Cambridge was his well known text The Fourier Integral and Certain of its Applications another was a paper by G H Hardy in the 1933 Journalofthe London Mathematical Society As Hardy says in the introduction to this paper This note originates from a remark of Prof N Wiener to the effect that a f and g j cannot both be very small The theo pair of transforms rems which follow give the most precise interpretation possible ofWiener s remark Hardy s own statement of his results lightly paraphrased is as follows in which f is an integrable function on the real line and f is its Fourier transform x 2 m If f and j are both 0 Ix1e 2 for large x and some m then each is a finite linear combination ofHermite functions In particular if f and j are x2 x 2 2 2 both O e then f j Ae where A is a constant and if one x 2 2 is0 e then both are null **Harmonic Analysis in China** Minde Cheng,Dong-gao Deng,Sheng Gong,Chung-Chun Yang,2012-12-06 Harmonic Analysis in China is a collection of surveys and research papers written by distinguished Chinese mathematicians from within the People s Republic of China and expatriates The book covers topics in analytic function spaces of several complex variables integral transforms harmonic analysis on classical Lie groups and manifolds LP estimates of the Cauchy Riemann equations and wavelet transforms The reader will also be able to trace the great influence of the late Professor Loo keng Hua s ideas and methods on research into harmonic analysis on classical domains and the theory of functions of several complex variables Western scientists will thus become acquainted with the unique features and future trends of harmonic analysis in China Audience Analysts as well as engineers and physicists who use harmonic analysis *Harmonic Analysis and Operator Theory* Stefania A. M. Marcantognini,1995 The collection covers a broad spectrum of topics including wavelet analysis Haenkel operators multimeasure theory the boundary behavior of the Bergman kernel interpolation theory and Cotlar s Lemma on almost orthogonality in the context of L superscript p spaces and more *Harmonic Analysis on Spaces of Homogeneous Type* Donggao Deng,Yongsheng Han,2008-11-19 This book could have been entitled Analysis and Geometry The authors are addressing the following issue Is it possible to perform some harmonic analysis on a set Harmonic analysis on groups has a long tradition Here we are given a metric set X with a positive Borel measure and we would like to construct some algorithms which in the classical setting rely on the Fourier transformation Needless to say the Fourier transformation does not exist on an arbitrary metric set This endeavor is not a revolution It is a continuation of a line of research whichwasinitiated acenturyago withtwofundamentalpapersthatIwould like to discuss brie y The rst paper is the doctoral dissertation of Alfred Haar which was submitted at to University of Gottingen in July 1907 At that time it was known that the Fourier series expansion of a continuous function may diverge at a given point Haar wanted to know if this phenomenon happens for every 2 orthonormal basis of L 0 1 He answered this question by constructing an orthonormal basis today known as the Haar basis with the property that the expansion in this basis of any

continuous function uniformly converges to that function   **Geometric Harmonic Analysis II** Dorina Mitrea,Irina Mitrea,Marius Mitrea,2023-03-03 This monograph is part of a larger program materializing in five volumes whose principal aim is to develop tools in Real and Harmonic Analysis of geometric measure theoretic flavor capable of treating a broad spectrum of boundary value problems formulated in rather general geometric and analytic settings Volume II is concerned with function spaces measuring size and or smoothness such as Hardy spaces Besov spaces Triebel Lizorkin spaces Sobolev spaces Morrey spaces Morrey Campanato spaces spaces of functions of Bounded Mean Oscillations etc in general geometric settings Work here also highlights the close interplay between differentiability properties of functions and singular integral operators The text is intended for researchers graduate students and industry professionals interested in harmonic analysis functional analysis geometric measure theory and function space theory   **Harmonic Analysis** Barry Simon,2015-11-02 A Comprehensive Course in Analysis by Poincar Prize winner Barry Simon is a five volume set that can serve as a graduate level analysis textbook with a lot of additional bonus information including hundreds of problems and numerous notes that extend the text and provide important historical background Depth and breadth of exposition make this set a valuable reference source for almost all areas of classical analysis Part 3 returns to the themes of Part 1 by discussing pointwise limits going beyond the usual focus on the Hardy Littlewood maximal function by including ergodic theorems and martingale convergence harmonic functions and potential theory frames and wavelets spaces including bounded mean oscillation BMO and in the final chapter lots of inequalities including Sobolev spaces Calderon Zygmund estimates and hypercontractive semigroups   **Hardy Spaces on Homogeneous Groups** Gerald B. Folland,Elias M. Stein,1982-06-21 The object of this monograph is to give an exposition of the real variable theory of Hardy spaces HP spaces This theory has attracted considerable attention in recent years because it led to a better understanding in Rn of such related topics as singular integrals multiplier operators maximal functions and real variable methods generally Because of its fruitful development a systematic exposition of some of the main parts of the theory is now desirable In addition to this exposition these notes contain a recasting of the theory in the more general setting where the underlying Rn is replaced by a homogeneous group The justification for this wider scope comes from two sources 1 the theory of semi simple Lie groups and symmetric spaces where such homogeneous groups arise naturally as boundaries and 2 certain classes of non elliptic differential equations in particular those connected with several complex variables where the model cases occur on homogeneous groups The example which has been most widely studied in recent years is that of the Heisenberg group   *The Hardy Space H1 with Non-doubling Measures and Their Applications* Dachun Yang,Dongyong Yang,Guoen Hu,2014-01-04 The present book offers an essential but accessible introduction to the discoveries first made in the 1990s that the doubling condition is superfluous for most results for function spaces and the boundedness of operators It shows the methods behind these discoveries their consequences and some of their applications It also provides detailed and comprehensive arguments many typical and easy

to follow examples and interesting unsolved problems The theory of the Hardy space is a fundamental tool for Fourier analysis with applications for and connections to complex analysis partial differential equations functional analysis and geometrical analysis It also extends to settings where the doubling condition of the underlying measures may fail

    <u>Approximation Theory and Harmonic Analysis on Spheres and Balls</u> Feng Dai,Yuan Xu,2013-04-17 This monograph records progress in approximation theory and harmonic analysis on balls and spheres and presents contemporary material that will be useful to analysts in this area While the first part of the book contains mainstream material on the subject the second and the third parts deal with more specialized topics such as analysis in weight spaces with reflection invariant weight functions and analysis on balls and simplexes The last part of the book features several applications including cubature formulas distribution of points on the sphere and the reconstruction algorithm in computerized tomography This book is directed at researchers and advanced graduate students in analysis Mathematicians who are familiar with Fourier analysis and harmonic analysis will understand many of the concepts that appear in this manuscript spherical harmonics the Hardy Littlewood maximal function the Marcinkiewicz multiplier theorem the Riesz transform and doubling weights are all familiar tools to researchers in this area **A Panorama of Harmonic Analysis** Steven G. Krantz,2019-07-03 A Panorama of Harmonic Analysis treats the subject of harmonic analysis from its earliest beginnings to the latest research Following both an historical and a conceptual genesis the book discusses Fourier series of one and several variables the Fourier transform spherical harmonics fractional integrals and singular integrals on Euclidean space The climax of the book is a consideration of the earlier ideas from the point of view of spaces of homogeneous type The book culminates with a discussion of wavelets one of the newest ideas in the subject A Panorama of Harmonic Analysis is intended for graduate students advanced undergraduates mathematicians and anyone wanting to get a quick overview of the subject of cummutative harmonic analysis Applications are to mathematical physics engineering and other parts of hard science Required background is calculus set theory integration theory and the theory of sequences and series **Real-Variable Theory of Hardy Spaces Associated with Generalized Herz Spaces of Rafeiro and Samko** Yinqin Li,Dachun Yang,Long Huang,2023-02-14 The real variable theory of function spaces has always been at the core of harmonic analysis In particular the real variable theory of the Hardy space is a fundamental tool of harmonic analysis with applications and connections to complex analysis partial differential equations and functional analysis This book is devoted to exploring properties of generalized Herz spaces and establishing a complete real variable theory of Hardy spaces associated with local and global generalized Herz spaces via a totally fresh perspective This means that the authors view these generalized Herz spaces as special cases of ball quasi Banach function spaces In this book the authors first give some basic properties of generalized Herz spaces and obtain the boundedness and the compactness characterizations of commutators on them Then the authors introduce the associated Herz Hardy spaces localized Herz Hardy spaces and weak Herz Hardy spaces and develop a

complete real variable theory of these Herz Hardy spaces including their various maximal function atomic molecular as well as various Littlewood Paley function characterizations As applications the authors establish the boundedness of some important operators arising from harmonic analysis on these Herz Hardy spaces Finally the inhomogeneous Herz Hardy spaces and their complete real variable theory are also investigated With the fresh perspective and the improved conclusions on the real variable theory of Hardy spaces associated with ball quasi Banach function spaces all the obtained results of this book are new and their related exponents are sharp This book will be appealing to researchers and graduate students who are interested in function spaces and their applications   **The Mathematical Heritage of Guido Weiss** Eugenio Hernández,Marco Maria Peloso,Fulvio Ricci,Fernando Soria,Anita Tabacco,2025-01-31 This work is a tribute to the life and work of Guido Weiss a mathematician whose profound contributions shaped the field of harmonic analysis over a span of more than six decades His groundbreaking research from pioneering real and complex analysis to his later work on wavelets continues to influence generations of scholars More than just a researcher Guido was a mentor collaborator and friend to many creating a global community of mathematicians His charisma and generosity fostered lasting professional and personal connections across continents touching lives far beyond academia This volume features contributions of collaborators students and colleagues of Guido who had a particularly intense relationship with him From a heartfelt remembrance of Guido Weiss to advanced discussions on spectral synthesis and wavelet theory this collection contains a diverse landscape of mathematical results Readers will delve into topics such as the compactness of bilinear commutators the intricacies of analytic families in extrapolation theory and the intersections of time frequency analysis with modern learning techniques With contributions to Hardy spaces Haar multipliers and crystalline measures this book serves both as a tribute to past achievements and a beacon for future exploration   *Multi-Parameter Hardy Spaces Theory and Endpoint Estimates for Multi-Parameter Singular Integrals* Guozhen Lu,Lu Zhang,Jiawei Shen,2023-01-18 View the abstract   Hardy Spaces on Ahlfors-Regular Quasi Metric Spaces Ryan Alvarado,Marius Mitrea,2015-06-09 Systematically constructing an optimal theory this monograph develops and explores several approaches to Hardy spaces in the setting of Alhlfors regular quasi metric spaces The text is divided into two main parts with the first part providing atomic molecular and grand maximal function characterizations of Hardy spaces and formulates sharp versions of basic analytical tools for quasi metric spaces such as a Lebesgue differentiation theorem with minimal demands on the underlying measure a maximally smooth approximation to the identity and a Calderon Zygmund decomposition for distributions These results are of independent interest The second part establishes very general criteria guaranteeing that a linear operator acts continuously from a Hardy space into a topological vector space emphasizing the role of the action of the operator on atoms Applications include the solvability of the Dirichlet problem for elliptic systems in the upper half space with boundary data from Hardy spaces The tools established in the first part are then used to develop a sharp theory of Besov and Triebel Lizorkin spaces in Ahlfors regular quasi metric

spaces The monograph is largely self contained and is intended for mathematicians graduate students and professionals with a mathematical background who are interested in the interplay between analysis and geometry   Proceedings of the Analysis Conference, Singapore 1986 S.T.L. Choy,J.P. Jesudason,P.Y. Lee,2011-09-22 The main emphasis of this volume is on harmonic and functional analysis The papers include some of the latest research developments in this important field of mathematics   Symmetries in Complex Analysis Bruce Gilligan,Guy Roos,2008 The theme of this volume concerns interactions between group actions and problems in complex analysis The first four articles deal with such topics as representation kernels in representation theory complex automorphisms and holomorphic equivalence of domains and geometric description of exceptional symmetric domains The last article is devoted to Seiberg Witten equations and Taubes correspondence on symplectic 4 manifolds BOOK JACKET   **Theory of Besov Spaces** Yoshihiro Sawano,2018-11-04 This is a self contained textbook of the theory of Besov spaces and Triebel Lizorkin spaces oriented toward applications to partial differential equations and problems of harmonic analysis These include a priori estimates of elliptic differential equations the T1 theorem pseudo differential operators the generator of semi group and spaces on domains and the Kato problem Various function spaces are introduced to overcome the shortcomings of Besov spaces and Triebel Lizorkin spaces as well The only prior knowledge required of readers is familiarity with integration theory and some elementary functional analysis Illustrations are included to show the complicated way in which spaces are defined Owing to that complexity many definitions are required The necessary terminology is provided at the outset and the theory of distributions L p spaces the Hardy Littlewood maximal operator and the singular integral operators are called upon One of the highlights is that the proof of the Sobolev embedding theorem is extremely simple There are two types for each function space a homogeneous one and an inhomogeneous one The theory of function spaces which readers usually learn in a standard course can be readily applied to the inhomogeneous one However that theory is not sufficient for a homogeneous space it needs to be reinforced with some knowledge of the theory of distributions This topic however subtle is also covered within this volume Additionally related function spaces Hardy spaces bounded mean oscillation spaces and H lder continuous spaces are defined and discussed and it is shown that they are special cases of Besov spaces and Triebel Lizorkin spaces   Spaces of Holomorphic Functions in the Unit Ball Kehe Zhu,2006-03-22 Can be used as a graduate text Contains many exercises Contains new results

     Advanced Real Analysis Anthony W. Knapp,2008-07-11 Presents a comprehensive treatment with a global view of the subject Rich in examples problems with hints and solutions the book makes a welcome addition to the library of every mathematician   Recent developments in the Navier-Stokes problem Pierre Gilles Lemarie-Rieusset,2002-04-26 The Navier Stokes equations fascinating fundamentally important and challenging Although many questions remain open progress has been made in recent years The regularity criterion of Caffarelli Kohn and Nirenberg led to many new results on existence and non existence of solutions and the very active search for mild solutions in the 1990 s culminated in the theorem of Koch and

Tataru that in some ways provides a definitive answer Recent Developments in the Navier Stokes Problem brings these and other advances together in a self contained exposition presented from the perspective of real harmonic analysis The author first builds a careful foundation in real harmonic analysis introducing all the material needed for his later discussions He then studies the Navier Stokes equations on the whole space exploring previously scattered results such as the decay of solutions in space and in time uniqueness self similar solutions the decay of Lebesgue or Besov norms of solutions and the existence of solutions for a uniformly locally square integrable initial value Many of the proofs and statements are original and to the extent possible presented in the context of real harmonic analysis Although the existence regularity and uniqueness of solutions to the Navier Stokes equations continue to be a challenge this book is a welcome opportunity for mathematicians and physicists alike to explore the problem s intricacies from a new and enlightening perspective

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