Cycle Spaces of Flag Domains: A Complex Geometric Viewpoint

Alan T. Huckleberry [*] & Joseph A. Wolf [†]

29 October 2002

Abstract

This is a survey of history, methods and developments in the theory of cycle spaces of flag domains, and new results on double fibration transforms and their applications.

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    <u>Cycle Spaces of Flag Domains</u> Gregor Fels,Alan Huckleberry,Joseph A. Wolf,2008-11-01 Driven by numerous examples from the complex geometric viewpoint New results presented for the first time Widely accessible with all necessary background material provided for the nonspecialist Comparisons with classical Barlet cycle spaces are given Good bibliography and index   *Cycle Spaces of Flag Domains* Gregor Fels,Alan Huckleberry,Joseph A. Wolf,2006-07-30 This research monograph is a systematic exposition of the background methods and recent results in the theory of cycle spaces of ag domains Some of the methods are now standard but many are new The exposition is carried out from the viewpoint of complex algebraic and differential geometry Except for certain foundational material whichisreadilyavailablefromstandardtexts itisessentiallyself contained at points where this is not the case we give extensive references After developing the background material on complex ag manifolds and rep sentationtheory wegiveanexposition withanumberofnewresults ofthecomplex geometric methods that lead to our characterizations of group theoretically de ned cyclespacesandtoanumberofconsequences Thenwegiveabriefindicationofjust how those results are related to the representation theory of semisimple Lie groups through for example the theory of double bration transforms and we indicate the connection to the variation of Hodge structure Finally we work out detailed local descriptions of the relevant full Barlet cycle spaces Cycle space theory is a basic chapter in complex analysis Since the 1960s its importance has been underlined by its role in the geometry of ag domains and by applications in the representation theory of semisimple Lie groups This developed veryslowlyuntilafewofyearsagowhenmethodsofcomplexgeometry inparticular those involving Schubert slices Schubert domains Iwasawa domains and suppo ing hypersurfaces were introduced In the late 1990s and continuing through early 2002 we developed those methods and used them to give a precise description of cycle spaces for ag domains This effectively enabled the use of double bration transforms in all ag domain situations   **Cycle Spaces of Flag Domains** Gregor Fels,Alan Huckleberry,Joseph A. Wolf,2005-12-12 Driven by numerous examples from the complex geometric viewpoint New results presented for the first time Widely accessible with all necessary background material provided for the nonspecialist Comparisons with classical Barlet cycle spaces are given Good bibliography and index   <u>Global Aspects of Complex Geometry</u> Fabrizio Catanese,Hélène Esnault,Alan Huckleberry,Klaus Hulek,Thomas Peternell,2006-09-29 This collection of surveys present an overview of recent developments in Complex Geometry Topics range from curve and surface theory through special varieties in higher dimensions moduli theory K hler geometry and group actions to Hodge theory and characteristic p geometry Written by established experts this book will be a must for mathematicians working in Complex Geometry   **Complex Analytic Cycles II** Daniel Barlet,Jón Magnússon,2025-06-23 This book is the second volume of a work on complex analytic cycles and the results stated without proof in the first volume are proved here It begins with the construction of the reduced complex space formed by all compact cycles of a given complex space Following this

construction the main subjects of the book are Fundamental class of a cycle and relative fundamental class of an analytic family of cycles Intersection theory with parameters on complex manifolds and more generally on nearly smooth complex spaces Holomorphic currents on reduced complex spaces Chow varieties and cycle spaces of quasi projective complex spaces Natural morphism from the Douady space to the cycle space Holomorphic convexity in cycle spaces and integration of bar partial cohomology classes on cycles Strong K hlerianity of cycle spaces of K hler manifolds Numerous important applications of cycle space theory Preliminaries needed in the book in addition to the material of the first volume for instance sheaf cohomology with support are explained in detail making this two volume work quite self contained The French version of the present book was published in 2020 by the French Mathematical Society in the series Cours Sp cialis s and during the translation process the authors have in many ways improved the original version   Lie Groups: Structure, Actions, and Representations Alan Huckleberry,Ivan Penkov,Gregg Zuckerman,2013-08-04 Lie Groups Structures Actions and Representations In Honor of Joseph A Wolf on the Occasion of his 75th Birthday consists of invited expository and research articles on new developments arising from Wolf s profound contributions to mathematics Due to Professor Wolf s broad interests outstanding mathematicians and scholars in a wide spectrum of mathematical fields contributed to the volume Algebraic geometric and analytic methods are employed More precisely finite groups and classical finite dimensional as well as infinite dimensional Lie groups and algebras play a role Actions on classical symmetric spaces and on abstract homogeneous and representation spaces are discussed Contributions in the area of representation theory involve numerous viewpoints including that of algebraic groups and various analytic aspects of harmonic analysis Contributors D Akhiezer T Oshima A Andrada I Pacharoni M L Barberis F Ricci L Barchini S Rosenberg I Dotti N Shimeno M Eastwood J Tirao V Fischer S Treneer T Kobayashi C T C Wall A Kor nyi D Wallace B Kostant K Wiboonton P Kostelec F Xu K H Neeb O Yakimova G Olafsson R Zierau B rsted   Hodge Theory, Complex Geometry, and Representation Theory Mark Green, Phillip Griffiths,Matt Kerr,2013-11-05 This monograph presents topics in Hodge theory and representation theory two of the most active and important areas in contemporary mathematics The underlying theme is the use of complex geometry to understand the two subjects and their relationships to one another an approach that is complementary to what is in the literature Finite dimensional representation theory and complex geometry enter via the concept of Hodge representations and Hodge domains Infinite dimensional representation theory specifically the discrete series and their limits enters through the realization of these representations through complex geometry as pioneered by Schmid and in the subsequent description of automorphic cohomology For the latter topic of particular importance is the recent work of Carayol that potentially introduces a new perspective in arithmetic automorphic representation theory The present work gives a treatment of Carayol s work and some extensions of it set in a general complex geometric framework Additional subjects include a description of the relationship between limiting mixed Hodge structures and the boundary orbit structure of Hodge

domains a general treatment of the correspondence spaces that are used to construct Penrose transforms and selected other topics from the recent literature A co publication of the AMS and CBMS *Developments and Retrospectives in Lie Theory* Geoffrey Mason,Ivan Penkov,Joseph A. Wolf,2014-11-12 The Lie Theory Workshop founded by Joe Wolf UC Berkeley has been running for over two decades At the beginning the top universities in California and Utah hosted the meetings which continue to run on a quarterly basis Experts in representation theory Lie theory from various parts of the US Europe Asia China Japan Singapore Russia Canada and South and Central America were routinely invited to give talks at these meetings Nowadays the workshops are also hosted at universities in Louisiana Virginia and Oklahoma These Lie theory workshops have been sponsored by the NSF noting the talks have been seminal in describing new perspectives in the field covering broad areas of current research The contributors have all participated in these Lie theory workshops and include in this volume expository articles which will cover representation theory from the algebraic geometric analytic and topological perspectives with also important connections to math physics These survey articles review and update the prominent seminal series of workshops in representation Lie theory mentioned above and reflects the widespread influence of those workshops in such areas as harmonic analysis representation theory differential geometry algebraic geometry number theory and mathematical physics Many of the contributors have had prominent roles in both the classical and modern developments of Lie theory and its applications **Analysis, Geometry and Quantum Field Theory** Clara L. Aldana,2012 This volume contains the proceedings of the conference Analysis Geometry and Quantum Field Theory held at Potsdam University in September 2011 which honored Steve Rosenberg s 60th birthday The papers in this volume cover a wide range of areas including Quantum Field Theory Deformation Quantization Gerbes Loop Spaces Index Theory Determinants of Elliptic Operators K theory Infinite Rank Bundles and Mathematical Biology **Recent Advances in Hodge Theory** Matt Kerr,Gregory Pearlstein,2016-02-04 Combines cutting edge research and expository articles in Hodge theory An essential reference for graduate students and researchers **Infinite Groups: Geometric, Combinatorial and Dynamical Aspects** Laurent Bartholdi,Tullio Ceccherini-Silberstein,Tatiana Smirnova-Nagnibeda,Andrzej Zuk,2005-12-09 This book offers a panorama of recent advances in the theory of infinite groups It contains survey papers contributed by leading specialists in group theory and other areas of mathematics Topics include amenable groups Kaehler groups automorphism groups of rooted trees rigidity C algebras random walks on groups pro p groups Burnside groups parafree groups and Fuchsian groups The accent is put on strong connections between group theory and other areas of mathematics Metric Foliations and Curvature Detlef Gromoll,Gerard Walschap,2009-03-28 In the past three or four decades there has been increasing realization that metric foliations play a key role in understanding the structure of Riemannian manifolds particularly those with positive or nonnegative sectional curvature In fact all known such spaces are constructed from only a representative handful by means of metric fibrations or deformations thereof This text is an attempt to document some of

these constructions many of which have only appeared in journal form The emphasis here is less on the fibration itself and more on how to use it to either construct or understand a metric with curvature of fixed sign on a given space **The Penrose Transform** Robert J. Baston,Michael G. Eastwood,2016-10-28 Geared toward students of physics and mathematics presupposes no familiarity with twistor theory A huge amount of information well organized and condensed into less than 200 pages Mathematical Reviews 1989 edition **Hodge Theory, Complex Geometry, and Representation Theory** Robert S. Doran,Greg Friedman,Scott Nollet,2014 This volume contains the proceedings of an NSF Conference Board of the Mathematical Sciences CBMS regional conference on Hodge theory complex geometry and representation theory held on June 18 2012 at the Texas Christian University in Fort Worth TX Phillip Griffiths of the Institute for Advanced Study gave 10 lectures describing now classical work concerning how the structure of Shimura varieties as quotients of Mumford Tate domains by arithmetic groups had been used to understand the relationship between Galois representations and automorphic forms He then discussed recent breakthroughs of Carayol that provide the possibility of extending these results beyond the classical case His lectures will appear as an independent volume in the CBMS series published by the AMS This volume which is dedicated to Phillip Griffiths contains carefully written expository and research articles Expository papers include discussions of Noether Lefschetz theory algebraicity of Hodge loci and the representation theory of SL2 R Research articles concern the Hodge conjecture Harish Chandra modules mirror symmetry Hodge representations of Q algebraic groups and compactifications distributions and quotients of period domains It is expected that the book will be of interest primarily to research mathematicians physicists and upper level graduate students **A Celebration of Algebraic Geometry** Brendan Hassett,James McKernan,Jason Starr,Ravi Vakil,2013-09-11 This volume resulted from the conference A Celebration of Algebraic Geometry which was held at Harvard University from August 25 28 2011 in honor of Joe Harris 60th birthday Harris is famous around the world for his lively textbooks and enthusiastic teaching as well as for his seminal research contributions The articles are written in this spirit clear original engaging enlivened by examples and accessible to young mathematicians The articles in this volume focus on the moduli space of curves and more general varieties commutative algebra invariant theory enumerative geometry both classical and modern rationally connected and Fano varieties Hodge theory and abelian varieties and Calabi Yau and hyperk hler manifolds Taken together they present a comprehensive view of the long frontier of current knowledge in algebraic geometry Titles in this series are co published with the Clay Mathematics Institute Cambridge MA **Mathematical Reviews** ,2007 **On Complex Analytic Cycle Spaces of Flag Domains** Gregor Fels,2004 **Complex Geometry** Ingrid Bauer,F. Catanese,Y. Kawamata,Thomas Peternell,Y.-T. Siu,2011-06-28 This volume contains a collection of research papers dedicated to Hans Grauert on the occasion of his seventieth birthday Hans Grauert is a pioneer in modern complex analysis continuing the il lustrious German tradition in function theory of several complex variables of Weierstrass Behnke Thullen Stein Siegel and many others When Grauert came on the scene in

the early 1950 s function theory was going through a revolutionary period with the geometric theory of complex spaces still in its embryonic stage A rich theory evolved with the joint efforts of many great mathematicians including Oka Kodaira Cartan and Serre The Car tan Seminar in Paris and the Kodaira Seminar provided important venues an for its development Grauert together with Andreotti and Remmert took active part in the latter In his career he has nurtured a great number of his own doctoral students as well as other young mathematicians in his field from allover the world For a couple of decades his work blazed the trail and set the research agenda in several complex variables worldwide Among his many fundamentally important contributions which are too numerous to completely enumerate here are 1 The complete clarification of various notions of complex spaces 2 The solution of the general Levi problem and his work on pseudo convexity for general manifolds 3 The theory of exceptional analytic sets 4 The Oka principle for holomorphic bundles 5 The proof of the Mordell conjecture for function fields 6 The direct image theorem for coherent sheaves   **Lie Theory and Its Applications in Physics** Vladimir Dobrev,2016-12-10 This volume presents modern trends in the area of symmetries and their applications based on contributions from the workshop Lie Theory and Its Applications in Physics held near Varna Bulgaria in June 2015 Traditionally Lie theory is a tool to build mathematical models for physical systems Recently the trend has been towards geometrization of the mathematical description of physical systems and objects A geometric approach to a system yields in general some notion of symmetry which is very helpful in understanding its structure Geometrization and symmetries are employed in their widest sense embracing representation theory algebraic geometry number theory infinite dimensional Lie algebras and groups superalgebras and supergroups groups and quantum groups noncommutative geometry symmetries of linear and nonlinear partial differential operators PDO special functions and others Furthermore the necessary tools from functional analysis are included div This is a large interdisciplinary and interrelated field and the present volume is suitable for a broad audience of mathematicians mathematical physicists and theoretical physicists including researchers and graduate students interested in Lie Theory   Lie Theory and Geometry Jean-Luc Brylinski,Ranee Brylinski,Victor Guillemin,Victor Kac,2012-12-06 This volume dedicated to Bertram Kostant on the occasion of his 65th birthday is a collection of 22 invited papers by leading mathematicians working in Lie theory geometry algebra and mathematical physics Kostant s fundamental work in all these areas has provided deep new insights and connections and has created new fields of research The papers gathered here present original research articles as well as expository papers broadly reflecting the range of Kostant s work

Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Cycle Spaces Of Flag Domains A Complex G**

In a world inundated with screens and the cacophony of instant communication, the profound power and mental resonance of verbal art frequently diminish in to obscurity, eclipsed by the regular assault of noise and distractions. However, nestled within the lyrical pages of **Cycle Spaces Of Flag Domains A Complex G**, a interesting work of literary brilliance that pulses with raw thoughts, lies an remarkable journey waiting to be embarked upon. Penned by a virtuoso wordsmith, this interesting opus books readers on a psychological odyssey, lightly exposing the latent possible and profound influence stuck within the elaborate internet of language. Within the heart-wrenching expanse with this evocative analysis, we will embark upon an introspective exploration of the book is key subjects, dissect their fascinating publishing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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