FRACTIONAL SOBOLEV INEQUALITIES: SYMMETRIZATION, ISOPERIMETRY AND INTERPOLATION

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Fractional Sobolev Inequalities Symmetrization Interpolation

Barry Simon

Fractional Sobolev Inequalities Symmetrization Interpolation:

Fractional Sobolev Inequalities Joaquim Martín,Mario Milman,2014 The authors obtain new oscillation inequalities in metric spaces in terms of the Peetre K functional and the isoperimetric profile Applications provided include a detailed study of fractional Sobolev inequalities and the Morrey Sobolev embedding theorems in different contexts In particular the authors include a detailed study of Gaussian measures as well as probability measures between Gaussian and exponential They show a kind of reverse Polya Szego principle that allows them to obtain continuity as a self improvement from boundedness using symmetrization inequalities The authors methods also allow for precise estimates of growth envelopes of generalized Sobolev and Besov spaces on metric spaces The authors also consider embeddings into BMO and their connection to Sobolev embeddings   Special Functions, Partial Differential Equations, and Harmonic Analysis Constantine Georgakis,Alexander M. Stokolos,Wilfredo Urbina,2014-11-07 This volume of papers presented at the conference in honor of Calixto P Calder n by his friends colleagues and students is intended to make the mathematical community aware of his important scholarly and research contributions in contemporary Harmonic Analysis and Mathematical Models applied to Biology and Medicine and to stimulate further research in the future in this area of pure and applied mathematics   **Hardy-Littlewood and Ulyanov Inequalities** Yurii Kolomoitsev,Sergey Tikhonov,2021-09-24 View the abstract   **Sobolev Spaces in Mathematics I** Vladimir Maz'ya,2008-12-02 This volume mark s the centenary of the birth of the outstanding mathematician of the 20th century Sergey Sobolev It includes new results on the latest topics of the theory of Sobolev spaces partial differential equations analysis and mathematical physics   *A First Course in Fractional Sobolev Spaces* Giovanni Leoni,2023-04-12 This book provides a gentle introduction to fractional Sobolev spaces which play a central role in the calculus of variations partial differential equations and harmonic analysis The first part deals with fractional Sobolev spaces of one variable It covers the definition standard properties extensions embeddings Hardy inequalities and interpolation inequalities The second part deals with fractional Sobolev spaces of several variables The author studies completeness density homogeneous fractional Sobolev spaces embeddings necessary and sufficient conditions for extensions Gagliardo Nirenberg type interpolation inequalities and trace theory The third part explores some applications interior regularity for the Poisson problem with the right hand side in a fractional Sobolev space and some basic properties of the fractional Laplacian The first part of the book is accessible to advanced undergraduates with a strong background in integration theory the second part to graduate students having familiarity with measure and integration and some functional analysis Basic knowledge of Sobolev spaces would help but is not necessary The book can also serve as a reference for mathematicians working in the calculus of variations and partial differential equations as well as for researchers in other disciplines with a solid mathematics background It contains several exercises and is self contained   *A New Approach to Kazhdan-Lusztig Theory of Type B Via Quantum Symmetric Pairs* Huanchen Bao,Weiqiang Wang,2018 We show that Hecke algebra of type B and a coideal subalgebra of the type A quantum

group satsify a double centralizer property generalizing the Schur Jimbo duality in type A The quantum group of type A and its coideal subalgebra form a quantum symmetric pair A new theory of canonical bases arising from quantum symmetric pairs is initiated It is then applied to formulate and establish for the first time a Kazhdan Lusztig theory for the BGG category O of the orthosymplectic Lie superalgebras osp 2m 1 vertical bar 2n In particular our approach provides a new formulation of the Kazhdan Lusztig theory for Lie algebras of type B C **Geometric and Analytic Aspects of Functional Variational Principles** Rupert Frank,Giuseppe Mingione,Lubos Pick,Ovidiu Savin,Jean Van Schaftingen,2024-11-19 This book is dedicated to exploring optimization problems of geometric analytic nature which are fundamental to tackling various unresolved questions in mathematics and physics These problems revolve around minimizing geometric or analytic quantities often representing physical energies within prescribed collections of sets or functions They serve as catalysts for advancing methodologies in calculus of variations partial differential equations and geometric analysis Furthermore insights from optimal functional geometric inequalities enhance analytical problem solving endeavors The contributions focus on the intricate interplay between these inequalities and problems of differential and variational nature Key topics include functional and geometric inequalities optimal norms sharp constants in Sobolev type inequalities and the regularity of solutions to variational problems Readers will gain a comprehensive understanding of these concepts deepening their appreciation for their relevance in mathematical and physical inquiries **A Torsion Jacquet-Langlands Correspondence** Frank Calegari,Akshay Venkatesh,2019 We prove a numerical form of a Jacquet Langlands correspondence for torsion classes on arithmetic hyperbolic 3 manifolds Prov de l editor **Essays on Fourier Analysis in Honor of Elias M. Stein (PMS-42)** Charles Fefferman,Robert Fefferman,Stephen Wainger,2014-07-14 This book contains the lectures presented at a conference held at Princeton University in May 1991 in honor of Elias M Stein s sixtieth birthday The lectures deal with Fourier analysis and its applications The contributors to the volume are W Beckner A Boggess J Bourgain A Carbery M Christ R R Coifman S Dobyinsky C Fefferman R Fefferman Y Han D Jerison P W Jones C Kenig Y Meyer A Nagel D H Phong J Vance S Wainger D Watson G Weiss V Wickerhauser and T H Wolff The topics of the lectures are conformally invariant inequalities oscillatory integrals analytic hypoellipticity wavelets the work of E M Stein elliptic non smooth PDE nodal sets of eigenfunctions removable sets for Sobolev spaces in the plane nonlinear dispersive equations bilinear operators and renormalization holomorphic functions on wedges singular Radon and related transforms Hilbert transforms and maximal functions on curves Besov and related function spaces on spaces of homogeneous type and counterexamples with harmonic gradients in Euclidean space Originally published in 1995 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found

in the thousands of books published by Princeton University Press since its founding in 1905 **Around the Research of Vladimir Maz'ya III** Ari Laptev,2009-11-25 This volume reflects the variety of areas where Maz ya s results are fundamental influential and or pioneering New advantages in such areas are presented by world recognized experts and include in particularly Beurling s minimum principle inverse hyperbolic problems degenerate oblique derivative problems the Lp contractivity of the generated semigroups some class of singular integral operators general Cwikel Lieb Rozenblum and Lieb Thirring inequalities domains with rough boundaries integral and supremum operators finite rank Toeplitz operators etc

A First Course in Sobolev Spaces Giovanni Leoni,2024-04-17 This book is about differentiation of functions It is divided into two parts which can be used as different textbooks one for an advanced undergraduate course in functions of one variable and one for a graduate course on Sobolev functions The first part develops the theory of monotone absolutely continuous and bounded variation functions of one variable and their relationship with Lebesgue Stieltjes measures and Sobolev functions It also studies decreasing rearrangement and curves The second edition includes a chapter on functions mapping time into Banach spaces The second part of the book studies functions of several variables It begins with an overview of classical results such as Rademacher s and Stepanoff s differentiability theorems Whitney s extension theorem Brouwer s fixed point theorem and the divergence theorem for Lipschitz domains It then moves to distributions Fourier transforms and tempered distributions The remaining chapters are a treatise on Sobolev functions The second edition focuses more on higher order derivatives and it includes the interpolation theorems of Gagliardo and Nirenberg It studies embedding theorems extension domains chain rule superposition Poincar s inequalities and traces A major change compared to the first edition is the chapter on Besov spaces which are now treated using interpolation theory Function Spaces, 1 Luboš Pick,Alois Kufner,Oldřich John,Svatopluk Fucík,2012-12-19 This is the first part of the second revised and extended edition of the well established book Function Spaces by Alois Kufner Old ich John and Svatopluk Fu k Like the first edition this monograph is an introduction to function spaces defined in terms of differentiability and integrability classes It provides a catalogue of various spaces and benefits as a handbook for those who use function spaces in their research or lecture courses This first volume is devoted to the study of function spaces based on intrinsic properties of a function such as its size continuity smoothness various forms of a control over the mean oscillation and so on The second volume will be dedicated to the study of function spaces of Sobolev type in which the key notion is the weak derivative of a function of several variables

Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society,1983

Mathematical Reviews ,2005 **Séminaire Bourbaki** Société mathématique de France,2019 This 69th volume of the Bourbaki Seminar contains the texts of the fifteen survey lectures done during the year 2016 2017 Topics addressed covered Langlands correspondence NIP property in model theory Navier Stokes equation algebraic and complex analytic geometry algorithmic and geometric questions in knot theory analytic number theory formal moduli problems general relativity sofic

entropy sphere packings subriemannian geometry Prov de l editor   **Sobolev Spaces** Vladimir Maz'ya,2013-12-21 The Sobolev spaces i e the classes of functions with derivatives in L occupy p an outstanding place in analysis During the last two decades a substantial contribution to the study of these spaces has been made so now solutions to many important problems connected with them are known In the present monograph we consider various aspects of Sobolev space theory Attention is paid mainly to the so called imbedding theorems Such theorems originally established by S L Sobolev in the 1930s proved to be a useful tool in functional analysis and in the theory of linear and nonlinear par tial differential equations We list some questions considered in this book 1 What are the requirements on the measure f1 for the inequality q   **Partial Differential Equations in Anisotropic Musielak-Orlicz Spaces** Iwona Chlebicka,Piotr Gwiazda,Agnieszka Świerczewska-Gwiazda,Aneta Wróblewska-Kamińska,2021-11-01 This book provides a detailed study of nonlinear partial differential equations satisfying certain nonstandard growth conditions which simultaneously extend polynomial inhomogeneous and fully anisotropic growth The common property of the many different kinds of equations considered is that the growth conditions of the highest order operators lead to a formulation of the equations in Musielak Orlicz spaces This high level of generality understood as full anisotropy and inhomogeneity requires new proof concepts and a generalization of the formalism calling for an extended functional analytic framework This theory is established in the first part of the book which serves as an introduction to the subject but is also an important ingredient of the whole story The second part uses these theoretical tools for various types of PDEs including abstract and parabolic equations but also PDEs arising from fluid and solid mechanics For connoisseurs there is a short chapter on homogenization of elliptic PDEs The book will be of interest to researchers working in PDEs and in functional analysis   **Orthogonal Polynomials on the Unit Circle: Spectral theory** Barry Simon,2005 This two part book is a comprehensive overview of the theory of probability measures on the unit circle viewed especially in terms of the orthogonal polynomials defined by those measures A major theme involves the connections between the Verblunsky coefficients the coefficients of the recurrence equation for the orthogonal polynomials and the measures an analog of the spectral theory of one dimensional Schr dinger operators Among the topics discussed along the way are the asymptotics of Toeplitz determinants Szeg s theorems limit theorems for the density of the zeros of orthogonal polynomials matrix representations for multiplication by z CMV matrices periodic Verblunsky coefficients from the point of view of meromorphic functions on hyperelliptic surfaces and connections between the theories of orthogonal polynomials on the unit circle and on the real line   <u>Russian Mathematical Surveys</u> ,1989   <u>Успехи математических наук</u> ,1989

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