

# MEMOIRS

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## Completely Positive Hypergroup Actions

Ajit Iqbal Singh



# Completely Positive Hypergroup Actions

**Judd E. Hollander**



## **Completely Positive Hypergroup Actions:**

**Completely Positive Hypergroup Actions** Ajit Iqbal Singh, 1996 It is now well known that the measure algebra script capital M italic capital G of a locally compact group can be regarded as a subalgebra of the operator algebra italic capital B italic capital L2 italic capital G of the operator algebra italic capital B italic capital L2 italic capital G of the Hilbert space italic capital L2 italic capital G We study the situation in hypergroups and find that in general the analogous map for them is neither an isometry nor a homomorphism However it is completely positive and completely bounded in certain ways This work presents the related general theory and special examples

**Harmonic Analysis On Hypergroups: Approximation And Stochastic Sequences** Rupert Lasser, 2022-12-06 The book aims at giving a monographic presentation of the abstract harmonic analysis of hypergroups while combining it with applied topics of spectral analysis approximation by orthogonal expansions and stochastic sequences Hypergroups are locally compact Hausdorff spaces equipped with a convolution an involution and a unit element Related algebraic structures had already been studied by Frobenius around 1900 Their axiomatic characterisation in harmonic analysis was later developed in the 1970s Hypergroups naturally emerge in seemingly different application areas as time series analysis probability theory and theoretical physics The book presents harmonic analysis on commutative and polynomial hypergroups as well as weakly stationary random fields and sequences thereon For polynomial hypergroups also difference equations and stationary sequences are considered At greater extent than in the existing literature the book compiles a rather comprehensive list of hypergroups in particular of polynomial hypergroups With an eye on readers at advanced undergraduate and graduate level the proofs are generally worked out in careful detail The bibliography is extensive

**Functional Equations on Hypergroups** L. szlç Székelyhidi, 2013 The theory of hypergroups is a rapidly developing area of mathematics due to its diverse applications in different areas like probability harmonic analysis etc This book exhibits the use of functional equations and spectral synthesis in the theory of hypergroups It also presents the fruitful consequences of this delicate OC marriageOCO where the methods of spectral analysis and synthesis can provide an efficient tool in characterization problems of function classes on hypergroups This book is written for the interested reader who has open eyes for both functional equations and hypergroups and who dares to enter a new world of ideas a new world of methods OCo and sometimes a new world of unexpected difficulties

**Harmonic Analysis of Probability Measures on Hypergroups** Walter R. Bloom, Herbert Heyer, 2011-04-20 The series is devoted to the publication of monographs and high level textbooks in mathematics mathematical methods and their applications Apart from covering important areas of current interest a major aim is to make topics of an interdisciplinary nature accessible to the non specialist The works in this series are addressed to advanced students and researchers in mathematics and theoretical physics In addition it can serve as a guide for lectures and seminars on a graduate level The series de Gruyter Studies in Mathematics was founded ca 30 years ago by the late Professor Heinz Bauer and Professor Peter Gabriel with the aim to

establish a series of monographs and textbooks of high standard written by scholars with an international reputation presenting current fields of research in pure and applied mathematics While the editorial board of the Studies has changed with the years the aspirations of the Studies are unchanged In times of rapid growth of mathematical knowledge carefully written monographs and textbooks written by experts are needed more than ever not least to pave the way for the next generation of mathematicians In this sense the editorial board and the publisher of the Studies are devoted to continue the Studies as a service to the mathematical community Please submit any book proposals to Niels Jacob Quantum Symmetries Thomas Creutzig, Julia Plavnik, David Ridout, 2025-03-19 This volume contains the proceedings of the thematic program on Quantum symmetries Tensor categories topological quantum field theories and vertex algebras held from October 10 November 4 2022 at the Centre de Recherches Mathématiques Montréal Québec Canada Quantum symmetries is a rapidly expanding area in which tensor categories are applied to mathematical physics in particular to conformal and topological quantum field theories These fields in turn connect to a huge variety of modern mathematics including representation theory vertex operator algebras Hopf algebras link and knot invariants geometry subfactors combinatorics and so much more The thematic program on quantum symmetries featured advanced lecture courses and research seminars by international leaders of their respective fields This proceedings volume is centered on the active research of the area but also includes an in depth survey of one of the main topics *W algebras* **Mathematical Reviews** ,2004 **Forthcoming Books** Rose Arny, 1997 American Book Publishing Record ,1997-05 The Cumulative Book Index ,1997 A world list of books in the English language *Books In Print 2004-2005* Ed Bowker Staff, Staff Bowker, Ed, 2004 **Subject Guide to Books in Print** ,1991 **Dissertation Abstracts International** ,1999 The Bulletin of Mathematics Books ,1992 *American Doctoral Dissertations* ,1997 *Comprehensive Dissertation Index* ,1984 Vols for 1973 include the following subject areas Biological sciences Agriculture Chemistry Environmental sciences Health sciences Engineering Mathematics and statistics Earth sciences Physics Education Psychology Sociology Anthropology History Law political science Business economics Geography regional planning Language literature Fine arts Library information science Mass communications Music Philosophy and Religion **An Index and Other Useful Information, 501-1000** Albrecht Dold, Beno Eckmann, 1984 **Comprehensive Dissertation Index: Mathematics & statistics. Physics, A-E** ,1984

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