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MATHEMATICS P2/*WISKUNDE V2*

FEBRUARY/MARCH/*FEBRUARIE/MAART* 2015

MEMORANDUM

MARKS/*PUNTE*: 150

Memo Mathematics Pfeb March 2015

Philip Beeley,Yelda Nasifoglu,Benjamin Wardhaugh

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The Mathematics of Superoscillations Yakir Aharonov,Fabrizio Colombo,Irene Sabadini,Daniele C. Struppa,Jeff Tollaksen,2017-04-25 In the past 50 years quantum physicists have discovered and experimentally demonstrated a phenomenon which they termed superoscillations Aharonov and his collaborators showed that superoscillations naturally arise when dealing with weak values a notion that provides a fundamentally different way to regard measurements in quantum physics From a mathematical point of view superoscillating functions are a superposition of small Fourier components with a bounded Fourier spectrum which result when appropriately summed in a shift that can be arbitrarily large and well outside the spectrum The purpose of this work is twofold on one hand the authors provide a self contained survey of the existing literature in order to offer a systematic mathematical approach to superoscillations on the other hand they obtain some new and unexpected results by showing that superoscillating sequences can be seen of as solutions to a large class of convolution equations and can therefore be treated within the theory of analytically uniform spaces In particular the authors will also discuss the persistence of the superoscillatory behavior when superoscillating sequences are taken as initial values of the Schr dinger equation and other equations **Topologically Protected States in One-Dimensional Systems** Charles Fefferman,James P. Lee-Thorp,M. I. Weinstein,2017-04-25 The authors study a class of periodic Schrodinger operators which in distinguished cases can be proved to have linear band crossings or Dirac points They then show that the introduction of an edge via adiabatic modulation of these periodic potentials by a domain wall results in the bifurcation of spatially localized edge states These bound states are associated with the topologically protected zero energy mode of an asymptotic one dimensional Dirac operator The authors model captures many aspects of the phenomenon of topologically protected edge states for two dimensional bulk structures such as the honeycomb structure of graphene The states the authors construct can be realized as highly robust TM electromagnetic modes for a class of photonic waveguides with a phase defect *Reading Mathematics in Early Modern Europe* Philip Beeley,Yelda Nasifoglu,Benjamin Wardhaugh,2020-10-20 Libraries and archives contain many thousands of early modern mathematical books of which almost equally many bear readers marks ranging from deliberate annotations and accidental blots to corrections and underlinings Such evidence provides us with the material and intellectual tools for exploring the nature of mathematical reading and the ways in which mathematics was disseminated and assimilated across different social milieus in the early centuries of print culture Other evidence is important too as the case studies collected in the volume document Scholarly correspondence can help us understand the motives and difficulties in producing new printed texts library catalogues can illuminate collection practices while manuscripts can teach us more about textual traditions By defining and illuminating the distinctive world of early modern mathematical reading the volume seeks to close the gap between the history of mathematics as a history of texts and history of mathematics as part of the broader history of human culture **On Non-Generic Finite Subgroups of**

Exceptional Algebraic Groups Alastair J. Litterick,2018-05-29 The study of finite subgroups of a simple algebraic group G reduces in a sense to those which are almost simple If an almost simple subgroup of G has a socle which is not isomorphic to a group of Lie type in the underlying characteristic of G then the subgroup is called non generic This paper considers non generic subgroups of simple algebraic groups of exceptional type in arbitrary characteristic   **Stable Stems** Daniel C. Isaksen,2020-02-13 The author presents a detailed analysis of 2 complete stable homotopy groups both in the classical context and in the motivic context over C He uses the motivic May spectral sequence to compute the cohomology of the motivic Steenrod algebra over C through the 70 stem He then uses the motivic Adams spectral sequence to obtain motivic stable homotopy groups through the 59 stem He also describes the complete calculation to the 65 stem but defers the proofs in this range to forthcoming publications In addition to finding all Adams differentials the author also resolves all hidden extensions by 2 and through the 59 stem except for a few carefully enumerated exceptions that remain unknown The analogous classical stable homotopy groups are easy consequences The author also computes the motivic stable homotopy groups of the cofiber of the motivic element This computation is essential for resolving hidden extensions in the Adams spectral sequence He shows that the homotopy groups of the cofiber of are the same as the E2 page of the classical Adams Novikov spectral sequence This allows him to compute the classical Adams Novikov spectral sequence including differentials and hidden extensions in a larger range than was previously known   **Special Values of the Hypergeometric Series** Akihito Ebisu,2017-07-13 In this paper the author presents a new method for finding identities for hypergeoemtric series such as the Gauss hypergeometric series the generalized hypergeometric series and the Appell Lauricella hypergeometric series Furthermore using this method the author gets identities for the hypergeometric series and shows that values of at some points can be expressed in terms of gamma functions together with certain elementary functions The author tabulates the values of that can be obtained with this method and finds that this set includes almost all previously known values and many previously unknown values   *Symmetry in Geometry and Analysis, Volume 1* Michael Pevzner,Hideko Sekiguchi,2025-02-09 Symmetry in Geometry and Analysis is a Festschrift honoring Toshiyuki Kobayashi The three volumes feature 35 selected contributions from invited speakers of twin conferences held in June 2022 in Reims France and in September 2022 in Tokyo Japan These contributions highlight the profound impact of Prof Kobayashi s pioneering ideas groundbreaking discoveries and significant achievements in the development of analytic representation theory noncommutative harmonic analysis and the geometry of discontinuous groups beyond the Riemannian context among other areas over the past four decades The first volume of the Festschrift includes a survey article on Kobayashi s innovative contributions to Mathematics emphasizing their influence and introducing new perspectives across various fields Original articles contained in Volume 1 focus on differential geometry with symmetries as well as algebraic and geometric aspects of representation theory of reductive Lie groups and related topics Contributions are by Velleda Baldoni Dan Barbasch Leticia

Barchini Sigiswald Barbier Yves Benoist Sam Claerebout Michael Eastwood Wee Teck Gan William M Goldman Roger Howe Kazuki Kannaka Toshihisa Kubo Hung Yean Loke Jia Jun Ma Reiko Miyaoka Kento Ogawa Takayuki Okuda Yoshiki Oshima Paul mile Paradan Annegret Paul Michael Pevzner Yiannis Sakellaridis Atsumi Sasaki Gordan Savin Hideko Sekiguchi Binyong Sun Yuichiro Tanaka Koichi Tojo Peter Trapa Mich le Vergne Joseph A Wolf Kayue Daniel Wong and Chen Bo Zhu The Mathematical Work of Toshiyuki Kobayashi is available open access under a Creative Commons Attribution 4 0 International License via link springer com   **Globally Generated Vector Bundles with Small c_1 on Projective Spaces** Cristian Anghel,Iustin Coandă,Nicolae Manolache,2018-05-29 The authors provide a complete classification of globally generated vector bundles with first Chern class $c_1 \leq 5$ one the projective plane and with $c_1 \leq 4$ on the projective n space for $n \geq 3$ This reproves and extends in a systematic manner previous results obtained for $c_1 \leq 2$ by Sierra and Ugaglia J Pure Appl Algebra 213 2009 2141 2146 and for c_1 3 by Anghel and Manolache Math Nachr 286 2013 1407 1423 and independently by Sierra and Ugaglia J Pure Appl Algebra 218 2014 174 180 It turns out that the case c_1 4 is much more involved than the previous cases especially on the projective 3 space Among the bundles appearing in our classification one can find the Sasakura rank 3 vector bundle on the projective 4 space conveniently twisted The authors also propose a conjecture concerning the classification of globally generated vector bundles with $c_1 \leq n$ 1 on the projective n space They verify the conjecture for $n \leq 5$ **Mathematical Reasoning: The History and Impact of the DReaM Group** Gregory Michaelson,2021-11-20 This collection of essays examines the key achievements and likely developments in the area of automated reasoning In keeping with the group ethos Automated Reasoning is interpreted liberally spanning underpinning theory tools for reasoning argumentation explanation computational creativity and pedagogy Wider applications including secure and trustworthy software and health care and emergency management The book starts with a technically oriented history of the Edinburgh Automated Reasoning Group written by Alan Bundy which is followed by chapters from leading researchers associated with the group Mathematical Reasoning The History and Impact of the DReaM Group will attract considerable interest from researchers and practitioners of Automated Reasoning including postgraduates It should also be of interest to those researching the history of AI   *Language and the Rise of the Algorithm* Jeffrey M. Binder,2022-12-06 A wide ranging history of the algorithm Bringing together the histories of mathematics computer science and linguistic thought Language and the Rise of the Algorithm reveals how recent developments in artificial intelligence are reopening an issue that troubled mathematicians well before the computer age How do you draw the line between computational rules and the complexities of making systems comprehensible to people By attending to this question we come to see that the modern idea of the algorithm is implicated in a long history of attempts to maintain a disciplinary boundary separating technical knowledge from the languages people speak day to day Here Jeffrey M Binder offers a compelling tour of four visions of universal computation that addressed this issue in very different ways G W Leibniz s calculus ratiocinator a

universal algebra scheme Nicolas de Condorcet designed during the French Revolution George Boole s nineteenth century logic system and the early programming language ALGOL short for algorithmic language These episodes show that symbolic computation has repeatedly become entangled in debates about the nature of communication Machine learning in its increasing dependence on words erodes the line between technical and everyday language revealing the urgent stakes underlying this boundary The idea of the algorithm is a levee holding back the social complexity of language and it is about to break This book is about the flood that inspired its construction **Mismeasuring Schools' Vital Signs** Steve Rees,Jill Wynns,2022-09-29 This book helps school and district leaders avoid the pitfalls that await those making sense of their school s data Whether you re interpreting achievement gaps graduation rates or test results you re at risk of reaching a mistaken judgment By learning about common errors and how they re made you ll be ready to choose safer surer paths to making better sense of the wealth of data in your school or district The authors help educators build better evidence see conclusions more clearly and explain the data more persuasively Special features Include Questions to Spark Discussion in each chapter encourage school site district leaders and board trustees to apply each chapter s content to their own situations Data visualizations together with the authors interpretations will help you learn how to do visual analysis and reach the right conclusions Practical tips provide clear guidance Supplemental resources can be found at the book s website k12measures com including interactive data visualizations and analytic exercises to help you learn a concept by doing **Theta Functions on Varieties with Effective Anti-Canonical Class** Mark Gross,Paul Hacking,Bernd Siebert,2022-07-18 View the abstract The Canonical Ring of a Stacky Curve John Voight,David Zureick-Brown,2022-05-24 View the abstract Between Worlds Linda Chisholm,2017-11-30 How the story of how missonary schools adopted the Bantu education reforms gives insight into the ongoing legacy of the apartheid in the South African educational system The transition from apartheid to the post apartheid era has highlighted questions about the past and the persistence of its influence in present day South Africa This is particularly so in education where the past continues to play a decisive role in relation to inequality Between Worlds German Missionaries and the Transition from Mission to Bantu Education in South Africa scrutinises the experience of a hitherto unexplored German mission society probing the complexities and paradoxes of social change in education It raises challenging questions about the nature of mission education legacies Linda Chisholm shows that the transition from mission to Bantu Education was far from seamless Instead past and present interpenetrated one another with resistance and compliance cohabiting in a complex new social order At the same time as missionaries complied with the new Bantu Education dictates they sought to secure a role for themselves in the face of demands of local communities for secular state controlled education When the latter was implemented in a perverted form from the mid 1950s one of its tools was textbooks in local languages developed by mission societies as part of a transnational project with African participation Introduced under the guise of expunging European control Bantu Education merely served to reinforce such control The

response of local communities was an attempt to domesticate and master the foreign body of the mission so as to create access to a larger world This book focuses on the ensuing struggle fought on many fronts including medium of instruction and textbook content with concomitant sub texts relating to gender roles and sexuality South Africa s educational history is to this day informed by networks of people and ideas crossing geographic and racial boundaries The colonial legacy has inevitably involved cultural mixing and hybridisation with paradoxically parallel pleas for purity Chisholm explores how these ideas found expression in colliding and coalescing worlds one African the other European caught between mission and apartheid education   **Flows in Networks** Lester Randolph Ford Jr.,D. R. Fulkerson,2015-12-08 This book presents simple elegant methods for dealing both in theory and in application with a variety of problems that have formulations in terms of flows in capacity constrained networks Since the theoretical considerations lead in all cases to computationally efficient solution procedures the hook provides a common meeting ground for persons interested in operations research industrial and communications engineering or combinatorial mathematics Originally published in 1962 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

The Mathematics of Secrets Joshua Holden,2018-10-02 Explaining the mathematics of cryptography The Mathematics of Secrets takes readers on a fascinating tour of the mathematics behind cryptography the science of sending secret messages Using a wide range of historical anecdotes and real world examples Joshua Holden shows how mathematical principles underpin the ways that different codes and ciphers work He focuses on both code making and code breaking and discusses most of the ancient and modern ciphers that are currently known He begins by looking at substitution ciphers and then discusses how to introduce flexibility and additional notation Holden goes on to explore polyalphabetic substitution ciphers transposition ciphers connections between ciphers and computer encryption stream ciphers public key ciphers and ciphers involving exponentiation He concludes by looking at the future of ciphers and where cryptography might be headed The Mathematics of Secrets reveals the mathematics working stealthily in the science of coded messages A blog describing new developments and historical discoveries in cryptography related to the material in this book is accessible at http press princeton edu titles 10826 html   Social Virtue Epistemology Mark Alfano,Colin Klein,Jeroen de Ridder,2022-07-29 This collection of 19 chapters all appearing in print here for the first time and written by an international team of established and emerging scholars explores the place of intellectual virtues and vices in a social world Relevant virtues include open mindedness curiosity intellectual courage diligence in inquiry and the like Relevant vices include dogmatism need for immediate certainty and gullibility and the like The chapters are divided into four key sections Foundational Issues Individual

Virtues Collective Virtues and Methods and Measurements And the chapters explore the most salient questions in this areas of research including How are individual intellectual virtues and vices affected by their social contexts Does being in touch with other open minded people make us more open minded Conversely does connection to other dogmatic people make us more dogmatic Can groups possess virtues and vices distinct from those of their members For instance could a group of dogmatic individuals operate in an open minded way despite the vices of its members Each chapter receives commentary from two other authors in the volume and each original author then replies to these commentaries Together the authors form part of a collective conversation about how we can know about what we know In so doing they not only theorize but enact social virtue epistemology **Degree Spectra of Relations on a Cone** Matthew Harrison-Trainor,2018-05-29 Let mathcal A be a mathematical structure with an additional relation R The author is interested in the degree spectrum of R either among computable copies of mathcal A when mathcal A R is a natural structure or to make this rigorous among copies of mathcal A R computable in a large degree d He introduces the partial order of degree spectra on a cone and begin the study of these objects Using a result of Harizanov that assuming an effectiveness condition on mathcal A and R if R is not intrinsically computable then its degree spectrum contains all c e degrees the author shows that there is a minimal non trivial degree spectrum on a cone consisting of the c e degrees *Computers and Society* Ronald M. Baecker,2019-04-24 The last century has seen enormous leaps in the development of digital technologies and most aspects of modern life have changed significantly with their widespread availability and use Technology at various scales supercomputers corporate networks desktop and laptop computers the internet tablets mobile phones and processors that are hidden in everyday devices and are so small you can barely see them with the naked eye all pervade our world in a major way Computers and Society Modern Perspectives is a wide ranging and comprehensive textbook that critically assesses the global technical achievements in digital technologies and how are they are applied in media education and learning medicine and health free speech democracy and government and war and peace Ronald M Baecker reviews critical ethical issues raised by computers such as digital inclusion security safety privacy automation and work and discusses social political and ethical controversies and choices now faced by society Particular attention is paid to new and exciting developments in artificial intelligence and machine learning and the issues that have arisen from our complex relationship with AI **Essays in Mathematical Economics, in Honor of Oskar Morgenstern** Martin Shubik,2015-12-08 Professor Morgenstern s deep interests in economic time series and problems of measurement are represented by path breaking articles devoted to the application of modern statistical analysis to temporal economic data Originally published in 1967 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

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