

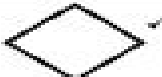


MARKS: 50

This memorandum consists of 5 pages.

Important information:

1. Give full marks for answers only, unless otherwise stated.
2. Accept any alternative correct solution that is not included in the memorandum.
3. CA refers to consistent accuracy. See clarification in Question 7.1.

| Question |                                        | Expected Answer                                                                                                                                                                                                                       | Clarification | Mark allocation | Total |       |       |     |     |     |   |  |   |  |   |   |   |  |  |   |   |
|----------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|-------|-------|-------|-----|-----|-----|---|--|---|--|---|---|---|--|--|---|---|
| 1.       | 1.1                                    | D✓                                                                                                                                                                                                                                    |               | 1               | 6     |       |       |     |     |     |   |  |   |  |   |   |   |  |  |   |   |
|          | 1.2                                    | B✓                                                                                                                                                                                                                                    |               | 1               |       |       |       |     |     |     |   |  |   |  |   |   |   |  |  |   |   |
|          | 1.3                                    | B✓                                                                                                                                                                                                                                    |               | 1               |       |       |       |     |     |     |   |  |   |  |   |   |   |  |  |   |   |
|          | 1.4                                    | A✓                                                                                                                                                                                                                                    |               | 1               |       |       |       |     |     |     |   |  |   |  |   |   |   |  |  |   |   |
|          | 1.5                                    | D✓                                                                                                                                                                                                                                    |               | 1               |       |       |       |     |     |     |   |  |   |  |   |   |   |  |  |   |   |
|          | 1.6                                    | C✓                                                                                                                                                                                                                                    |               | 1               |       |       |       |     |     |     |   |  |   |  |   |   |   |  |  |   |   |
| 2.       |                                        | $(32 + 25) + 18 = (25 + \underline{18})$ ✓                                                                                                                                                                                            |               | 1               | 1     |       |       |     |     |     |   |  |   |  |   |   |   |  |  |   |   |
| 3.       | 3.1                                    | 1 000 ✓                                                                                                                                                                                                                               |               | 1               | 2     |       |       |     |     |     |   |  |   |  |   |   |   |  |  |   |   |
|          | 3.2                                    |                                                                                                                                                      |               | 1               |       |       |       |     |     |     |   |  |   |  |   |   |   |  |  |   |   |
| 4.       |                                        | 7 ✓                                                                                                                                                                                                                                   |               | 1               | 1     |       |       |     |     |     |   |  |   |  |   |   |   |  |  |   |   |
| 5.       |                                        | < ✓                                                                                                                                                                                                                                   |               | 1               | 1     |       |       |     |     |     |   |  |   |  |   |   |   |  |  |   |   |
| 6.       | 6.1                                    | <table border="1"><tr><td>R20,00</td><td>R10,00</td><td>R5,00</td><td>R2,00</td><td>R1,00</td><td>50c</td><td>20c</td><td>10c</td></tr><tr><td>✓</td><td></td><td>✓</td><td></td><td>✓</td><td>✓</td><td>✓</td><td></td></tr></table> | R20,00        | R10,00          | R5,00 | R2,00 | R1,00 | 50c | 20c | 10c | ✓ |  | ✓ |  | ✓ | ✓ | ✓ |  |  | 1 | 2 |
|          | R20,00                                 | R10,00                                                                                                                                                                                                                                | R5,00         | R2,00           | R1,00 | 50c   | 20c   | 10c |     |     |   |  |   |  |   |   |   |  |  |   |   |
| ✓        |                                        | ✓                                                                                                                                                                                                                                     |               | ✓               | ✓     | ✓     |       |     |     |     |   |  |   |  |   |   |   |  |  |   |   |
| 6.2      | Change = R50,00 – R26,70<br>= R23,30 ✓ |                                                                                                                                                                                                                                       | 1             |                 |       |       |       |     |     |     |   |  |   |  |   |   |   |  |  |   |   |

# Ana Maths Memorandum Grade 5 2013

**Bart Bories, Willem Veys**



## **Ana Maths Memorandum Grade 5 2013:**

**Non-Semisimple Extended Topological Quantum Field Theories** Marco De Renzi,2022-05-24 View the abstract

**Analytic Trends in Mathematical Physics** Houssam Abdul-Rahman,Robert Sims,Amanda Young,2020-01-06 This volume contains the proceedings of the Arizona School of Analysis and Mathematical Physics held from March 5 9 2018 at the University of Arizona Tucson Arizona A main goal of this school was to introduce graduate students and postdocs to exciting topics of current research that are both influenced by physical intuition and require the use of cutting edge mathematics The articles in this volume reflect recent progress and innovative techniques developed within mathematical physics Two works investigate spectral gaps of quantum spin systems Specifically Abdul Rahman Lemm Lucia Nachtergaele and Young consider decorated AKLT models and Lemm demonstrates a finite size criterion for  $D$  dimensional models Bachmann De Roeck and Fraas summarize a recent proof of the adiabatic theorem while Bachmann Bols De Roeck and Fraas discuss linear response for interacting Hall insulators Models on general graphs are the topic of the articles by Fischbacher on higher spin XXZ and by Latushkin and Sukhtaiev on an index theorem for Schrödinger operators Probabilistic applications are the focus of the articles by DeMise and Yin on exponential random graphs by Saenz on KPZ universality and by Stolz on disordered quantum spin chains In all the diversity represented here is a testament to the enthusiasm this rich field of mathematical physics generates

**Multicultural Instructional Design: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2019-07-05 As the world becomes more globalized student populations in educational settings will continue to grow in diversity To ensure students develop the cultural competence to adapt to new environments educational institutions must develop curriculum policies and programs to aid in the progression of cultural acceptance and understanding Multicultural Instructional Design Concepts Methodologies Tools and Applications is a vital reference source for the latest research findings on inclusive curriculum development for multicultural learners It also examines the interaction between culture and learning in academic environments and the efforts to mediate it through various educational venues Highlighting a range of topics such as intercultural communication student diversity and language skills this multi volume book is ideally designed for educators professionals school administrators researchers and practitioners in the field of education

**Advances in Harmonic Analysis and Partial Differential Equations** Donatella Danielli,Irina Mitrea,2020-04-09 This volume contains the proceedings of the AMS Special Session on Harmonic Analysis and Partial Differential Equations held from April 21 22 2018 at Northeastern University Boston Massachusetts The book features a series of recent developments at the interface between harmonic analysis and partial differential equations and is aimed toward the theoretical and applied communities of researchers working in real complex and harmonic analysis partial differential equations and their applications The topics covered belong to the general areas of the theory of function spaces partial differential equations of elliptic parabolic and dissipative types geometric optics free boundary problems and ergodic

theory and the emphasis is on a host of new concepts methods and results      Breadth in Contemporary Topology David T. Gay, Weiwei Wu, 2019-06-27 This volume contains the proceedings of the 2017 Georgia International Topology Conference held from May 22 June 2 2017 at the University of Georgia Athens Georgia The papers contained in this volume cover topics ranging from symplectic topology to classical knot theory to topology of 3 and 4 dimensional manifolds to geometric group theory Several papers focus on open problems while other papers present new and insightful proofs of classical results Taken as a whole this volume captures the spirit of the conference both in terms of public lectures and informal conversations and presents a sampling of some of the great new ideas generated in topology over the preceding eight years      **From the Basic Homotopy Lemma to the Classification of  $C^*$ -algebras** Huaxin Lin, 2017-08-11 This book examines some recent developments in the theory of algebras which are algebras of operators on Hilbert spaces An elementary introduction to the technical part of the theory is given via a basic homotopy lemma concerning a pair of almost commuting unitaries The book presents an outline of the background as well as some recent results of the classification of simple amenable algebras otherwise known as the Elliott program This includes some stable uniqueness theorems and a revisiting of Bott maps via stable homotopy Furthermore theory related rotation maps are introduced The book is based on lecture notes from the CBMS lecture sequence at the University of Wyoming in the summer of 2015      **Davenport-Zannier Polynomials and Dessins d'Enfants** Nikolai M. Adrianov, Fedor Pakovich, Alexander K. Zvonkin, 2020-06-29 The French expression dessins d'enfants means children's drawings This term was coined by the great French mathematician Alexandre Grothendieck in order to denominate a method of pictorial representation of some highly interesting classes of polynomials and rational functions The polynomials studied in this book take their origin in number theory The authors show how by drawing simple pictures one can prove some long standing conjectures and formulate new ones The theory presented here touches upon many different fields of mathematics The major part of the book is quite elementary and is easily accessible to an undergraduate student The less elementary parts such as Galois theory or group representations and their characters would need a more profound knowledge of mathematics The reader may either take the basic facts of these theories for granted or use our book as a motivation and a first approach to these subjects      Trees of Hyperbolic Spaces Michael Kapovich, Pranab Sardar, 2024-08-15 This book offers an alternative proof of the Bestvina Feighn combination theorem for trees of hyperbolic spaces and describes uniform quasigeodesics in such spaces As one of the applications of their description of uniform quasigeodesics the authors prove the existence of Cannon Thurston maps for inclusion maps of total spaces of subtrees of hyperbolic spaces and of relatively hyperbolic spaces They also analyze the structure of Cannon Thurston laminations in this setting Furthermore some group theoretic applications of these results are discussed This book also contains background material on coarse geometry and geometric group theory      Wireless Communications Keith Q. T. Zhang, 2015-12-14 Understand the mechanics of wireless communication Wireless Communications Principles Theory and Methodology offers a

detailed introduction to the technology Comprehensive and well rounded coverage includes signaling transmission and detection including the mathematical and physics principles that underlie the technology s mechanics Problems with modern wireless communication are discussed in the context of applied skills and the various approaches to solving these issues offer students the opportunity to test their understanding in a practical manner With in depth explanations and a practical approach to complex material this book provides students with a clear understanding of wireless communication technology

Functional Analysis, Harmonic Analysis, and Image Processing Michael Cwikel, Mario Milman, 2017-07-26 This volume is dedicated to the memory of Bj rn Jawerth It contains original research contributions and surveys in several of the areas of mathematics to which Bj rn made important contributions Those areas include harmonic analysis image processing and functional analysis which are of course interrelated in many significant and productive ways Among the contributors are some of the world s leading experts in these areas With its combination of research papers and surveys this book may become an important reference and research tool This book should be of interest to advanced graduate students and professional researchers in the areas of functional analysis harmonic analysis image processing and approximation theory It combines articles presenting new research with insightful surveys written by foremost experts *Analysis, Complex Geometry, and Mathematical Physics* Paul M. N. Feehan, Jian Song, Ben Weinkove, Richard A. Wentworth, 2015-07-21 This volume contains the proceedings of the Conference on Analysis Complex Geometry and Mathematical Physics In Honor of Duong H Phong which was held from May 7 11 2013 at Columbia University New York The conference featured thirty speakers who spoke on a range of topics reflecting the breadth and depth of the research interests of Duong H Phong on the occasion of his sixtieth birthday A common thread familiar from Phong s own work was the focus on the interplay between the deep tools of analysis and the rich structures of geometry and physics Papers included in this volume cover topics such as the complex Monge Amp re equation pluripotential theory geometric partial differential equations theories of integral operators integrable systems and perturbative superstring theory

**Official Gazette of the United States Patent and Trademark Office**, 2005 **On Refined Conjectures of Birch and Swinnerton-Dyer Type for Hasse-Weil-Artin**

**\$L\$-Series** David Burns, Daniel Macias Castillo, 2024-06-07 View the abstract **Advances and Applications of DSMT for Information Fusion. Collected Works, Volume 5** Florentin Smarandache, Jean Dezert, Albena Tchamova, This fth volume on Advances and Applications of DSMT for Information Fusion collects theoretical and applied contributions of researchers working in different elds of applications and in mathematics and is available in open access The collected contributions of this volume have either been published or presented after disseminating the fourth volume in 2015 available at fs.unm.edu DSMT book4.pdf or www.onera.fr/sites/default/les297/2015\_DSMT\_Book4.pdf in international conferences seminars workshops and journals or they are new The contributions of each part of this volume are chronologically ordered First Part of this book presents some theoretical advances on DSMT dealing mainly with modified Proportional Conflict Redistribution

Rules PCR of combination with degree of intersection coarsening techniques interval calculus for PCR thanks to set inversion via interval analysis SIVIA rough set classifiers canonical decomposition of dichotomous belief functions fast PCR fusion fast inter criteria analysis with PCR and improved PCR5 and PCR6 rules preserving the quasi neutrality of quasi vacuous belief assignment in the fusion of sources of evidence with their Matlab codes Because more applications of DSMT have emerged in the past years since the apparition of the fourth book of DSMT in 2015 the second part of this volume is about selected applications of DSMT mainly in building change detection object recognition quality of data association in tracking perception in robotics risk assessment for torrent protection and multi criteria decision making multi modal image fusion coarsening techniques recommender system levee characterization and assessment human heading perception trust assessment robotics biometrics failure detection GPS systems inter criteria analysis group decision human activity recognition storm prediction data association for autonomous vehicles identification of maritime vessels fusion of support vector machines SVM Silx Furtif RUST code library for information fusion including PCR rules and network for ship classification Finally the third part presents interesting contributions related to belief functions in general published or presented along the years since 2015 These contributions are related with decision making under uncertainty belief approximations probability transformations new distances between belief functions non classical multi criteria decision making problems with belief functions generalization of Bayes theorem image processing data association entropy and cross entropy measures fuzzy evidence numbers negator of belief mass human activity recognition information fusion for breast cancer therapy imbalanced data classification and hybrid techniques mixing deep learning with belief functions as well

**Descriptive Complexity of Formal Systems** Michal Hospodár, Galina Jirásková, Stavros Konstantinidis, 2019-07-08 This book constitutes the proceedings of the 21st International Conference on Descriptive Complexity of Format Systems DCFS 2019 held in Košice Slovakia in July 2019 The 18 full papers presented in this volume were carefully reviewed and selected from 25 submissions The book also contains 4 invited talks They deal with all aspects of descriptive complexity and costs of description of objects in various computational models such as Turing machines pushdown automata finite automata grammars and others

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birth anniversaries of composers Giuseppe Verdi and Richard Wagner New birthday entries for sports stars such as Robert Griffin III Feb 12 actors such as Jessica Chastain Mar 24 Jean Dujardin June 19 and Benedict Cumberbatch July 19 musical artists such as Pitbull Jan 15 Adam Levine Mar 18 and Scotty McCreery Oct 9 newsmakers such as Fran oise Hollande Aug 12 and many others Special events such as Dyngus Day Apr 1 Bedbug Awareness Week Apr 22 26 National Polka Festival May 24 26 Lincoln Highway Centennial June 30 July 5 Kids Take Over the Kitchen Day Sept 13 the 34th America's Cup Sept 7 22 or Steamcon V Oct 25 27 Search Chase's Any Way You Want Whether you want to target a specific date location or subject our fully searchable CD ROM PC compatible only makes your research quick and easy Also included is a free installer so you can load Chase's directly to your hard drive

*Igusa's  $p$ -Adic Local Zeta Function and the Monodromy Conjecture for Non-Degenerate Surface Singularities* Bart Bories, Willem Veys, 2016-06-21 In 2011 Lemahieu and Van Proeyen proved the Monodromy Conjecture for the local topological zeta function of a non degenerate surface singularity The authors start from their work and obtain the same result for Igusa's  $p$ -adic and the motivic zeta function In the  $p$ -adic case this is for a polynomial  $f \in \mathbb{Z}[x, y, z]$  satisfying  $f(0, 0, 0) = 0$  and non degenerate with respect to its Newton polyhedron we show that every pole of the local  $p$ -adic zeta function of  $f$  induces an eigenvalue of the local monodromy of  $f$  at some point of  $f^{-1}(0) \subset \mathbb{C}^3$  close to the origin Essentially the entire paper is dedicated to proving that for  $f$  as above certain candidate poles of Igusa's  $p$ -adic zeta function of  $f$  arising from so called  $B_1$  facets of the Newton polyhedron of  $f$  are actually not poles This turns out to be much harder than in the topological setting The combinatorial proof is preceded by a study of the integral points in three dimensional fundamental parallelepipeds Together with the work of Lemahieu and Van Proeyen this main result leads to the Monodromy Conjecture for the  $p$ -adic and motivic zeta function of a non degenerate surface singularity

*Low-Rank and Sparse Modeling for Visual Analysis* Yun Fu, 2014-10-30 This book provides a view of low rank and sparse computing especially approximation recovery representation scaling coding embedding and learning among unconstrained visual data The book includes chapters covering multiple emerging topics in this new field It links multiple popular research fields in Human Centered Computing Social Media Image Classification Pattern Recognition Computer Vision Big Data and Human Computer Interaction Contains an overview of the low rank and sparse modeling techniques for visual analysis by examining both theoretical analysis and real world applications

[Yearbook of International Organizations 2013-2014 \(Volumes 1a-1b\)](#) Union Of International Associations, Union of International Associations, 2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events

[Subset currents on surfaces](#) Dounnu Sasaki, 2022-07-18 View the abstract

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