



**Basic Education**  
**KwaZulu-Natal Department of Education**  
**REPUBLIC OF SOUTH AFRICA**

**PHYSICAL SCIENCES P1 (PHYSICS)**  
**COMMON TEST**  
**JUNE 2016**

**NATIONAL SENIOR  
CERTIFICATE**

**GRADE 10**

**MARKS: 100**

**TIME: 2 hours**

**This question paper consists of 8 pages and 1 data sheet.**

# Physical Sciences P1 June 2014 Memo

**Peter Šemrl**



## Physical Sciences P1 June 2014 Memo:

*A Homology Theory for Smale Spaces* Ian F. Putnam, 2014-09-29 The author develops a homology theory for Smale spaces which include the basic sets for an Axiom A diffeomorphism. It is based on two ingredients. The first is an improved version of Bowen's result that every such system is the image of a shift of finite type under a finite-to-one factor map. The second is Krieger's dimension group invariant for shifts of finite type. He proves a Lefschetz formula which relates the number of periodic points of the system for a given period to trace data from the action of the dynamics on the homology groups. The existence of such a theory was proposed by Bowen in the 1970s. **Weighted Bergman Spaces Induced by**

**Rapidly Increasing Weights** Jose Angel Pelaez, Jouni Rattya, 2014-01-08 This monograph is devoted to the study of the weighted Bergman space  $A_{p,\omega}$  of the unit disc  $\mathbb{D}$  that is induced by a radial continuous weight  $\omega$  satisfying  $\lim_{r \rightarrow 1} \frac{1}{1-r} \int_r^1 \omega(s) ds = 1$ . Every such  $A_{p,\omega}$  lies between the Hardy space  $H^p$  and every classical weighted Bergman space  $A_{p,\alpha}$ . Even if it is well known that  $H^p$  is the limit of  $A_{p,\alpha}$  as  $\alpha \rightarrow 1$  in many respects it is shown that  $A_{p,\omega}$  lies closer to  $H^p$  than any  $A_{p,\alpha}$  and that several finer function theoretic properties of  $A_{p,\alpha}$  do not carry over to  $A_{p,\omega}$ . Singularity Theory for Non-Twist KAM Tori A.

González-Enríquez, A. Haro, R. de la Llave, 2014-01-08 In this monograph the authors introduce a new method to study bifurcations of KAM tori with fixed Diophantine frequency in parameter dependent Hamiltonian systems. It is based on Singularity Theory of critical points of a real valued function which the authors call the potential. The potential is constructed in such a way that nondegenerate critical points of the potential correspond to twist invariant tori, i.e. with nondegenerate torsion, and degenerate critical points of the potential correspond to non twist invariant tori. Hence bifurcating points correspond to non twist tori. **Higher-Order Time Asymptotics of Fast Diffusion in Euclidean Space: A Dynamical**

**Systems Approach** Jochen Denzler, Herbert Koch, Robert J. McCann, 2015-02-06 This paper quantifies the speed of convergence and higher order asymptotics of fast diffusion dynamics on  $\mathbb{R}^n$  to the Barenblatt self-similar solution. Degeneracies in the parabolicity of this equation are cured by re-expressing the dynamics on a manifold with a cylindrical end called the cigar. The nonlinear evolution becomes differentiable in Hölder spaces on the cigar. The linearization of the dynamics is given by the Laplace-Beltrami operator plus a transport term which can be suppressed by introducing appropriate weights into the function space norm plus a finite depth potential well with a universal profile. In the limiting case of the linear heat equation the depth diverges, the number of eigenstates increases without bound and the continuous spectrum recedes to infinity. The authors provide a detailed study of the linear and nonlinear problems in Hölder spaces on the cigar including a sharp boundedness estimate for the semigroup and use this as a tool to obtain sharp convergence results toward the Barenblatt solution and higher order asymptotics. In finer convergence results after modding out symmetries of the problem a subtle interplay between convergence rates and tail behavior is revealed. The difficulties

involved in choosing the right functional spaces in which to carry out the analysis can be interpreted as genuine features of the equation rather than mere annoying technicalities

**Poincare-Einstein Holography for Forms via Conformal Geometry in the Bulk** A. Rod Gover, Emanuele Latini, Andrew Waldron, 2015-04-09 The authors study higher form Proca equations on Einstein manifolds with boundary data along conformal infinity They solve these Laplace type boundary problems formally and to all orders by constructing an operator which projects arbitrary forms to solutions They also develop a product formula for solving these asymptotic problems in general The central tools of their approach are i the conformal geometry of differential forms and the associated exterior tractor calculus and ii a generalised notion of scale which encodes the connection between the underlying geometry and its boundary The latter also controls the breaking of conformal invariance in a very strict way by coupling conformally invariant equations to the scale tractor associated with the generalised scale

**Shock Waves in Conservation Laws with Physical Viscosity** Tai-Ping Liu, Yanni Zeng, 2015-02-06 The authors study the perturbation of a shock wave in conservation laws with physical viscosity They obtain the detailed pointwise estimates of the solutions In particular they show that the solution converges to a translated shock profile The strength of the perturbation and that of the shock are assumed to be small but independent The authors assumptions on the viscosity matrix are general so that their results apply to the Navier Stokes equations for the compressible fluid and the full system of magnetohydrodynamics including the cases of multiple eigenvalues in the transversal fields as long as the shock is classical The authors analysis depends on accurate construction of an approximate Green s function The form of the ansatz for the perturbation is carefully constructed and is sufficiently tight so that the author can close the nonlinear term through Duhamel s principle

**Polynomial Approximation on Polytopes** Vilmos Totik, 2014-09-29 Polynomial approximation on convex polytopes in is considered in uniform and norms For an appropriate modulus of smoothness matching direct and converse estimates are proven In the case so called strong direct and converse results are also verified The equivalence of the moduli of smoothness with an appropriate functional follows as a consequence The results solve a problem that was left open since the mid 1980s when some of the present findings were established for special so called simple polytopes

**Generalized Descriptive Set Theory and Classification Theory** Sy-David Friedman, Tapani Hyttinen, Vadim Kulikov, 2014-06-05 Descriptive set theory is mainly concerned with studying subsets of the space of all countable binary sequences In this paper the authors study the generalization where countable is replaced by uncountable They explore properties of generalized Baire and Cantor spaces equivalence relations and their Borel reducibility The study shows that the descriptive set theory looks very different in this generalized setting compared to the classical countable case They also draw the connection between the stability theoretic complexity of first order theories and the descriptive set theoretic complexity of their isomorphism relations The authors results suggest that Borel reducibility on uncountable structures is a model theoretically natural way to compare the complexity of isomorphism relations

*Global and Local Regularity of Fourier*

*Integral Operators on Weighted and Unweighted Spaces* David Dos Santos Ferreira, Wolfgang Staubach, 2014-04-07 The authors investigate the global continuity on spaces with of Fourier integral operators with smooth and rough amplitudes and or phase functions subject to certain necessary non degeneracy conditions In this context they prove the optimal global boundedness result for Fourier integral operators with non degenerate phase functions and the most general smooth H rmander class amplitudes i e those in with They also prove the very first results concerning the continuity of smooth and rough Fourier integral operators on weighted spaces with and i e the Muckenhoupt weights for operators with rough and smooth amplitudes and phase functions satisfying a suitable rank condition **The Optimal Version of Hua's**

**Fundamental Theorem of Geometry of Rectangular Matrices** Peter Šemrl, 2014-09-29 Hua s fundamental theorem of geometry of matrices describes the general form of bijective maps on the space of all  $m$  times  $n$  matrices over a division ring  $\mathbb{D}$  which preserve adjacency in both directions Motivated by several applications the author studies a long standing open problem of possible improvements There are three natural questions Can we replace the assumption of preserving adjacency in both directions by the weaker assumption of preserving adjacency in one direction only and still get the same conclusion Can we relax the bijectivity assumption Can we obtain an analogous result for maps acting between the spaces of rectangular matrices of different sizes A division ring is said to be EAS if it is not isomorphic to any proper subring For matrices over EAS division rings the author solves all three problems simultaneously thus obtaining the optimal version of Hua s theorem In the case of general division rings he gets such an optimal result only for square matrices and gives examples showing that it cannot be extended to the non square case **A Power Law of Order  $1/4$  for Critical Mean**

**Field Swendsen-Wang Dynamics** Yun Long, Asaf Nachmias, Weiyang Ning, Yuval Peres, 2014-09-29 Introduction Statement of the results Mixing time preliminaries Outline of the proof of Theorem 2.1 Random graph estimates Supercritical case Subcritical case Critical Case Fast mixing of the Swendsen Wang process on trees Acknowledgements Bibliography

**Quasi-Linear Perturbations of Hamiltonian Klein-Gordon Equations on Spheres** J.-M. Delort, 2015-02-06 The Hamiltonian  $X_{tu}^2 u_{m^2}^2 u_{dx}^2$  defined on functions on  $R \times X$  where  $X$  is a compact manifold has critical points which are solutions of the linear Klein Gordon equation The author considers perturbations of this Hamiltonian given by polynomial expressions depending on first order derivatives of  $u$  The associated PDE is then a quasi linear Klein Gordon equation The author shows that when  $X$  is the sphere and when the mass parameter  $m$  is outside an exceptional subset of zero measure smooth Cauchy data of small size give rise to almost global solutions i e solutions defined on a time interval of length  $cN$  for any  $N$  Previous results were limited either to the semi linear case when the perturbation of the Hamiltonian depends only on  $u$  or to the one dimensional problem The proof is based on a quasi linear version of the Birkhoff normal forms method relying on convenient generalizations of para differential calculus Self-Affine Scaling Sets in  $\mathbb{R}^2$  Xiaoye Fu, Jean-Pierre Gabardo, 2014-12-20 There exist results on the connection between the theory of wavelets and the theory of

integral self affine tiles and in particular on the construction of wavelet bases using integral self affine tiles However there are many non integral self affine tiles which can also yield wavelet basis In this work the author gives a complete characterization of all one and two dimensional dilation scaling sets such that is a self affine tile satisfying for some  $R$  where is a integral expansive matrix with and

**Operator-Valued Measures, Dilations, and the Theory of Frames** Deguang Han, David R. Larson, Bei Liu, Rui Liu, 2014-04-07 The authors develop elements of a general dilation theory for operator valued measures Hilbert space operator valued measures are closely related to bounded linear maps on abelian von Neumann algebras and some of their results include new dilation results for bounded linear maps that are not necessarily completely bounded and from domain algebras that are not necessarily abelian In the non cb case the dilation space often needs to be a Banach space They give applications to both the discrete and the continuous frame theory There are natural associations between the theory of frames including continuous frames and framings the theory of operator valued measures on sigma algebras of sets and the theory of continuous linear maps between algebras In this connection frame theory itself is identified with the special case in which the domain algebra for the maps is an abelian von Neumann algebra and the map is normal i e ultraweakly or weakly or w continuous

**Relative Equilibria in the 3-Dimensional Curved  $n$ -Body**

**Problem** Florin Diacu, 2014-03-05 Considers the 3 dimensional gravitational  $n$  body problem  $n \geq 2$  in spaces of constant Gaussian curvature  $k \neq 0$  i e on spheres  $S^3$  for  $0$  and on hyperbolic manifolds  $H^3$  for

**The Grothendieck Inequality Revisited** Ron Blei, 2014-09-29 The classical Grothendieck inequality is viewed as a statement about representations of functions of two variables over discrete domains by integrals of two fold products of functions of one variable An analogous statement is proved concerning continuous functions of two variables over general topological domains The main result is the construction of a continuous map  $\Phi$  from  $\ell^2(A)$  into  $L^2(\Omega_A, \mathbb{P}_A)$  where  $A$  is a set  $\Omega_A \subseteq \mathbb{R}^A$  and  $\mathbb{P}_A$  is the uniform probability measure on  $\Omega_A$

Semiclassical Standing Waves with Clustering Peaks for Nonlinear Schrodinger Equations Jaeyoung Byeon, Kazunaga Tanaka, 2014-04-07 The authors study the following singularly perturbed problem in Their main result is the existence of a family of solutions with peaks that cluster near a local maximum of  $A$  A local variational and deformation argument in an infinite dimensional space is developed to establish the existence of such a family for a general class of nonlinearities

A Geometric Theory for Hypergraph Matching Peter Keevash, Richard Mycroft, 2014-12-20 The authors develop a theory for the existence of perfect matchings in hypergraphs under quite general conditions Informally speaking the obstructions to perfect matchings are geometric and are of two distinct types space barriers from convex geometry and divisibility barriers from arithmetic lattice based constructions To formulate precise results they introduce the setting of simplicial complexes with minimum degree sequences which is a generalisation of the usual minimum degree condition They determine the essentially best possible minimum degree sequence for finding an almost perfect matching Furthermore their main result establishes the stability property under the same degree assumption

if there is no perfect matching then there must be a space or divisibility barrier This allows the use of the stability method in proving exact results Besides recovering previous results the authors apply our theory to the solution of two open problems on hypergraph packings the minimum degree threshold for packing tetrahedra in graphs and Fischer's conjecture on a multipartite form of the Hajnal Szemerédi Theorem Here they prove the exact result for tetrahedra and the asymptotic result for Fischer's conjecture since the exact result for the latter is technical they defer it to a subsequent paper     Nonlinear Stability of Ekman Boundary Layers in Rotating Stratified Fluids Hajime Koba,2014-03-05 A stationary solution of the rotating Navier Stokes equations with a boundary condition is called an Ekman boundary layer This book constructs stationary solutions of the rotating Navier Stokes Boussinesq equations with stratification effects in the case when the rotating axis is not necessarily perpendicular to the horizon The author calls such stationary solutions Ekman layers This book shows the existence of a weak solution to an Ekman perturbed system which satisfies the strong energy inequality Moreover the author discusses the uniqueness of weak solutions and computes the decay rate of weak solutions with respect to time under some assumptions on the Ekman layers and the physical parameters The author also shows that there exists a unique global in time strong solution of the perturbed system when the initial datum is sufficiently small Comparing a weak solution satisfying the strong energy inequality with the strong solution implies that the weak solution is smooth with respect to time when time is sufficiently large     **Large Deviations for Additive Functionals of Markov Chains** Alejandro D. de Acosta,Peter Ney,2014-03-05

The book delves into Physical Sciences P1 June 2014 Memo. Physical Sciences P1 June 2014 Memo is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physical Sciences P1 June 2014 Memo, encompassing both the fundamentals and more intricate discussions.

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## **Table of Contents Physical Sciences P1 June 2014 Memo**

1. Understanding the eBook Physical Sciences P1 June 2014 Memo
  - The Rise of Digital Reading Physical Sciences P1 June 2014 Memo
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Sciences P1 June 2014 Memo
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physical Sciences P1 June 2014 Memo
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Sciences P1 June 2014 Memo
  - Personalized Recommendations
  - Physical Sciences P1 June 2014 Memo User Reviews and Ratings
  - Physical Sciences P1 June 2014 Memo and Bestseller Lists
5. Accessing Physical Sciences P1 June 2014 Memo Free and Paid eBooks
  - Physical Sciences P1 June 2014 Memo Public Domain eBooks
  - Physical Sciences P1 June 2014 Memo eBook Subscription Services
  - Physical Sciences P1 June 2014 Memo Budget-Friendly Options
6. Navigating Physical Sciences P1 June 2014 Memo eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Sciences P1 June 2014 Memo Compatibility with Devices
  - Physical Sciences P1 June 2014 Memo Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Sciences P1 June 2014 Memo
  - Highlighting and Note-Taking Physical Sciences P1 June 2014 Memo
  - Interactive Elements Physical Sciences P1 June 2014 Memo

8. Staying Engaged with Physical Sciences P1 June 2014 Memo
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Sciences P1 June 2014 Memo
9. Balancing eBooks and Physical Books Physical Sciences P1 June 2014 Memo
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Sciences P1 June 2014 Memo
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physical Sciences P1 June 2014 Memo
  - Setting Reading Goals Physical Sciences P1 June 2014 Memo
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Sciences P1 June 2014 Memo
  - Fact-Checking eBook Content of Physical Sciences P1 June 2014 Memo
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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