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2014 Mathematics P1 Memorandum

**Antonio Alarcón, Franc
Forstnerič, Francisco J. López**



2014 Mathematics P1 Memorandum:

Caught in the Act Cyril Julie, Lorna Holtman, Charles R. Smith, 2019-12-11 The research reported in Caught in the Act draws together the insights gained from a continuous professional development initiative for high school mathematics teachers teaching in low socio economic status and socially challenged environments in South Africa The chapters show the possibilities for enhancing achievement in school mathematics if a strength based approach is adopted to develop teaching with teachers and when their concerns are taken seriously The book demonstrates that the ecological relevance fitness for the context in which teachers are teaching of the goods developed and distributed by initiatives should be a major consideration to offer hope for sustainable implementation to improve school mathematics education The book is of interest to mathematics teachers school leaders mathematics curriculum advisors policy makers and researchers

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

New Complex Analytic Methods in the Study of Non-Orientable Minimal Surfaces in \mathbb{R}^n Antonio Alarcón, Franc Forstnerič, Francisco J. López, 2020-05-13 All the new tools mentioned above apply to non orientable minimal surfaces endowed with a fixed choice of a conformal structure This enables the authors to obtain significant new applications to the global theory of non orientable minimal surfaces In particular they construct proper non orientable conformal minimal surfaces in \mathbb{R}^n with any given conformal structure complete non orientable minimal surfaces in \mathbb{R}^n with arbitrary conformal type whose generalized Gauss map is nondegenerate and omits n hyperplanes of $\mathbb{C}P^{n-1}$ in general position complete non orientable minimal surfaces bounded by Jordan curves and complete proper non orientable minimal surfaces normalized by bordered surfaces in p convex domains of \mathbb{R}^n

Quasi-Linear Perturbations of Hamiltonian Klein-Gordon Equations on Spheres J.-M. Delort, 2015-02-06 The Hamiltonian $X(t, u) = \frac{1}{2} u^2 + \frac{m^2}{2} u^2$ defined on functions on $\mathbb{R} \times X$ 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^N 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.

Julia Sets and Complex Singularities of Free Energies Jianyong Qiao, 2015-02-06. The author studies a family of renormalization transformations of generalized diamond hierarchical Potts models through complex dynamical systems. He proves that the Julia set (unstable set) of a renormalization transformation when it is treated as a complex dynamical system is the set of complex singularities of the free energy in statistical mechanics. He gives a sufficient and necessary condition for the Julia sets to be disconnected. Furthermore, he proves that all Fatou components (components of the stable sets) of this family of renormalization transformations are Jordan domains with at most one exception which is completely invariant. In view of the problem in physics about the distribution of these complex singularities, the author proves here a new type of distribution: the set of these complex singularities in the real temperature domain could contain an interval. Finally, the author studies the boundary behavior of the first derivative and second derivative of the free energy on the Fatou component containing the infinity. He also gives an explicit value of the second order critical exponent of the free energy for almost every boundary point.

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.

International Tables for Crystallography Moises I. Aroyo, 2021-07-06. This sixth edition of what was previously known as the Brief Teaching Edition of Volume A provides an introduction to the basic crystallographic data for space groups found in Volume A, for symmetry relations between space groups in Volume A1, and for subperiodic groups in Volume E of International Tables for Crystallography, to magnetic space groups and to the symmetry database that forms part

of International Tables Online at <https://it.iucr.org> It is designed for graduate students and young researchers who are new to the field of crystallographic symmetry and includes many illustrative examples to help readers to understand and use these different kinds of information Selected tables of symmetry data from the full volumes in the series are also included making this a handy aid for classroom teaching References are also provided to further specialized sources for those who need to go deeper into the subject and to textbooks for those who need more background information *R.T.P. Translation* Great Britain. Ministry of Aircraft Production, *Ohio Schools* ,1979 **Ulrich's International Periodicals Directory** ,1990

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