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Memo 2014 N3 Mathematics

MJJ van Rensburg



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The Triangle-Free Process and the Ramsey Number $R(3,k)$ Gonzalo Fiz Pontiveros, Simon Griffiths, Robert Morris, 2020-04-03 The areas of Ramsey theory and random graphs have been closely linked ever since Erdős's famous proof in 1947 that the diagonal Ramsey numbers R_k grow exponentially in k . In the early 1990s the triangle free process was introduced as a model which might potentially provide good lower bounds for the off diagonal Ramsey numbers $R(3,k)$. In this model edges of K_n are introduced one by one at random and added to the graph if they do not create a triangle the resulting final random graph is denoted G_n . In 2009 Bohman succeeded in following this process for a positive fraction of its duration and thus obtained a second proof of Kim's celebrated result that $R(3,k) \leq k^2 \log k$. In this paper the authors improve the results of both Bohman and Kim and follow the triangle free process all the way to its asymptotic end. Combinatorial Algorithms Adele Anna Rescigno, Ugo Vaccaro, 2024-06-21 This book constitutes the refereed proceedings of the 35th International Workshop on Combinatorial Algorithms IWOCA 2024 held in Ischia Italy during July 1-3 2024. The 40 full papers included in this book were carefully reviewed and selected from 110 submissions. The IWOCA conference series has provided an annual forum for researchers who design algorithms to address the myriad combinatorial problems underlying computer applications in science engineering and business. Automorphic Forms and Related Geometry: Assessing the Legacy of I.I. Piatetski-Shapiro James W. Cogdell, Freydoon Shahidi, David Soudry, 2014-04-01 This volume contains the proceedings of the conference Automorphic Forms and Related Geometry: Assessing the Legacy of I.I. Piatetski-Shapiro held from April 23-27 2012 at Yale University New Haven CT. Ilya I. Piatetski-Shapiro who passed away on 21 February 2009 was a leading figure in the theory of automorphic forms. The conference attempted both to summarize and consolidate the progress that was made during Piatetski-Shapiro's lifetime by him and a substantial group of his co-workers and to promote future work by identifying fruitful directions of further investigation. It was organized around several themes that reflected Piatetski-Shapiro's main foci of work and that have promise for future development: functoriality and converse theorems; local and global functions and their periods; adic functions and arithmetic geometry; complex geometry and analytic number theory. In each area there were talks to review the current state of affairs with special attention to Piatetski-Shapiro's contributions and other talks to report on current work and to outline promising avenues for continued progress. The contents of this volume reflect most of the talks that were presented at the conference as well as a few additional contributions. They all represent various aspects of the legacy of Piatetski-Shapiro. PC Mag, 1993-09-14 PCMag.com is a leading authority on technology delivering Labs based independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. **Linear Programming Computation** Ping-Qi PAN, 2014-03-27 With emphasis on computation this book is a real breakthrough in the field of LP. In addition to conventional topics such as the simplex method duality and interior point methods all deduced in a fresh and clear manner it

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