

Research Article

A System of Two Diophantine Inequalities with Primes

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Let $1 < d < c < 128/119$, $1 < \alpha < \beta < 6^{1-d/2c}$. In this paper, we prove that there exist positive real numbers $N_1^{(0)}$ and $N_2^{(0)}$ depending on c, d, α, β such that for all real numbers $N_1 > N_1^{(0)}$, $N_2 > N_2^{(0)}$ and $\alpha \leq N_2/N_1^{d/c} \leq \beta$, the system of two Diophantine inequalities $|p_1' + \dots + p_s' - N_1| < N_1^{-(15/119)(128/119-c)} \log^{100} N_1$, $|p_1' + \dots + p_s' - N_2| < N_2^{-(11/26)(128/119-d)} \log^{100} N_2$ is solvable in prime variables p_1, \dots, p_s .

1. Introduction

Assume that $c > 1$ is not an integer and ε is a sufficiently small positive number. Let $H(\varepsilon)$ denote the least integer s such that the Diophantine inequality

$$|p_1' + p_2' + \dots + p_s' - N| < \varepsilon \quad (1)$$

is solvable in primes p_1, p_2, \dots, p_s for sufficiently large N . In 1952, Piatetski-Shapiro [1] proved that

$$\limsup_{\varepsilon \rightarrow 0} \frac{H(\varepsilon)}{\varepsilon \log \varepsilon} \leq 4. \quad (2)$$

Piatetski-Shapiro also proved $H(\varepsilon) \leq 5$ for $1 < c < 3/2$. Tolev [2] first improved this result for c close to one. More precisely, Tolev proved that if $1 < c < 15/14$, the Diophantine inequality

$$|p_1' + p_2' + p_3' - N| < \varepsilon(N) \quad (3)$$

has prime solutions p_1, p_2, p_3 for large N , where $\varepsilon(N) = N^{-(15/119)(128/119-c)} \log^8 N$. Later, this result was improved by many authors (see [3–9]), and many analogous problems of this type were studied (for example, see [10–17]).

In 1995, Tolev [18] first considered the system of two Diophantine inequalities with primes

$$\begin{aligned} |p_1' + \dots + p_s' - N_1| &< \varepsilon_1'(N_1), \\ |p_1' + \dots + p_s' - N_2| &< \varepsilon_2'(N_2). \end{aligned} \quad (4)$$

He established that for all real numbers N_1, N_2 satisfying $N_1 > N_1^{(0)}$, $N_2 > N_2^{(0)}$ and $\alpha \leq N_2/N_1^{d/c} \leq \beta$, system (4) with

$$\begin{aligned} \varepsilon_1'(N_1) &= N_1^{-(15/119)(128/119-c)} \log^{12} N_1, \\ \varepsilon_2'(N_2) &= N_2^{-(11/26)(128/119-d)} \log^{12} N_2 \end{aligned} \quad (5)$$

has solutions in primes p_1, \dots, p_s , where c, d, α, β are real numbers satisfying the conditions

$$1 < d < c < 35/34, 1 < \alpha < \beta < 5^{1-d/2c}, \quad (6)$$

and $N_1^{(0)}, N_2^{(0)}$ depending on c, d, α, β are sufficiently large numbers. Subsequently, Tolev's result was improved by Zhai [19] and Zhai and Cao [20]. Now the best result is due to Zhai and Cao [20] who proved that system (4) with

$$\begin{aligned} \varepsilon_1'(N_1) &= N_1^{-(15/119)(128/119-c)} \log^{100} N_1, \\ \varepsilon_2'(N_2) &= N_2^{-(11/26)(128/119-d)} \log^{100} N_2 \end{aligned} \quad (7)$$

is solvable for $1 < d < c < 27/26$.

In this paper, we consider the following system of two Diophantine inequalities over primes p_1, \dots, p_s :

Diophantine Inequalities

Percy Alexander Macmahon



Diophantine Inequalities:

Analytic Methods for Diophantine Equations and Diophantine Inequalities H. Davenport, 2005-02-07 Harold Davenport was one of the truly great mathematicians of the twentieth century Based on lectures he gave at the University of Michigan in the early 1960s this book is concerned with the use of analytic methods in the study of integer solutions to Diophantine equations and Diophantine inequalities It provides an excellent introduction to a timeless area of number theory that is still as widely researched today as it was when the book originally appeared The three main themes of the book are Waring's problem and the representation of integers by diagonal forms the solubility in integers of systems of forms in many variables and the solubility in integers of diagonal inequalities For the second edition of the book a comprehensive foreword has been added in which three prominent authorities describe the modern context and recent developments A thorough bibliography has also been added

Diophantine Inequalities Roger Clive Baker, 1986 Starting with the work of I M Vinogradov and H Heilbronn the author develops the theme of nonlinear Diophantine approximation in a number of different directions

Analytic Methods for Diophantine Equations and Diophantine Inequalities Harold Davenport, 1962

Diophantine Equations and Inequalities in Algebraic Number Fields Yuan Wang, 2012-12-06 [Theory of Linear and Integer Programming](#) Alexander Schrijver, 1998-06-11 [Theory of Linear and Integer Programming](#) Alexander Schrijver Centrum voor Wiskunde en Informatica Amsterdam The Netherlands This book describes the theory of linear and integer programming and surveys the algorithms for linear and integer programming problems focusing on complexity analysis It aims at complementing the more practically oriented books in this field A special feature is the author's coverage of important recent developments in linear and integer programming Applications to combinatorial optimization are given and the author also includes extensive historical surveys and bibliographies The book is intended for graduate students and researchers in operations research mathematics and computer science It will also be of interest to mathematical historians

Contents 1 Introduction and preliminaries 2 Problems algorithms and complexity 3 Linear algebra and complexity 4 Theory of lattices and linear diophantine equations 5 Algorithms for linear diophantine equations 6 Diophantine approximation and basis reduction 7 Fundamental concepts and results on polyhedra linear inequalities and linear programming 8 The structure of polyhedra 9 Polarity and blocking and anti blocking polyhedra 10 Sizes and the theoretical complexity of linear inequalities and linear programming 11 The simplex method 12 Primal dual elimination and relaxation methods 13 Khachiyan's method for linear programming 14 The ellipsoid method for polyhedra more generally 15 Further polynomiality results in linear programming 16 Introduction to integer linear programming 17 Estimates in integer linear programming 18 The complexity of integer linear programming 19 Totally unimodular matrices fundamental properties and examples 20 Recognizing total unimodularity 21 Further theory related to total unimodularity 22 Integral polyhedra and total dual integrality 23 Cutting planes 24 Further methods in integer linear programming Historical and further notes on integer linear programming

References Notation index Author index Subject index **Diophantine inequalities** George Ballard Mathews,1900

Central European Olympiad, A: The Mathematical Duel Robert Geretschlager,Jozef Kalinowski,Jaroslav Svrcek,2017-11-29 This book contains the most interesting problems from the first 24 years of the Mathematical Duel an annual international mathematics competition between the students of four schools the Gymn zium Mikul e Kopern ka in B lovec Czech Republic the Akademicki Zesp Szk Og lnokszta c cych in Chorz w Poland the Bundesrealgymnasium Kepler in Graz Austria and the Gymn zium Jakuba kody in P erov Czech Republic The problems are presented by topic grouped under the headings Geometry Combinatorics Number Theory and Algebra which is typical for olympiad style competitions Above all it is of interest to students preparing for mathematics competitions as well as teachers looking for material to prepare their students as well as mathematically interested enthusiasts from all walks of life looking for an intellectual challenge

Number Theory Takashi Aoki,Shigeru Kanemitsu,Jianya Liu,2010 This volume aims at collecting survey papers which give broad and enlightening perspectives of various aspects of number theory Kitaoka s paper is a continuation of his earlier paper published in the last proceedings and pushes the research forward Browning s paper introduces a new direction of research on analytic number theory OCo quantitative theory of some surfaces and Bruedern et al s paper details state of the art affairs of additive number theory There are two papers on modular forms OCo Kohnen s paper describes generalized modular forms GMF which has some applications in conformal field theory while Liu s paper is very useful for readers who want to have a quick introduction to Maass forms and some analytic number theoretic problems related to them Matsumoto et al s paper gives a very thorough survey on functional relations of root system zeta functions HoshiOCoMiyake s paper is a continuation of Miyake s long and fruitful research on generic polynomials and gives rise to related Diophantine problems and Jia s paper surveys some dynamical aspects of a special arithmetic function connected with the distribution of prime numbers There are two papers of collections of problems by Shparlinski on exponential and character sums and Schinzel on polynomials which will serve as an aid for finding suitable research problems Yamamura s paper is a complete bibliography on determinant expressions for a certain class number and will be useful to researchers Thus the book gives a good balance of classical and modern aspects in number theory and will be useful to researchers including enthusiastic graduate students

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Diophantine Inequalities Donald Eric Freeman, 1999 **Number Theory: Dreaming In Dreams - Proceedings Of The 5th China-japan Seminar** Shigeru Kanemitsu, Takashi Aoki, Jianya Liu, 2009-11-26 This volume aims at collecting survey papers which give broad and enlightening perspectives of various aspects of number theory Kitaoka's paper is a continuation of his earlier paper published in the last proceedings and pushes the research forward Browning's paper introduces a new direction of research on analytic number theory quantitative theory of some surfaces and Brüdern et al's paper details state of the art affairs of additive number theory There are two papers on modular forms Kohnen's paper describes generalized modular forms GMF which has some applications in conformal field theory while Liu's paper is very useful for readers who want to have a quick introduction to Maass forms and some analytic number theoretic problems related to them Matsumoto et al's paper gives a very thorough survey on functional relations of root system zeta functions Hoshi Miyake's paper is a continuation of Miyake's long and fruitful research on generic polynomials and gives rise to related Diophantine problems and Jia's paper surveys some dynamical aspects of a special arithmetic function connected with the distribution of prime numbers There are two papers of collections of problems by Shparlinski on exponential and character sums and Schinzel on polynomials which will serve as an aid for finding suitable research problems Yamamura's paper is a complete bibliography on determinant expressions for a certain class number and will be useful to researchers Thus the book gives a good balance of classical and modern aspects in number theory and will be useful to researchers including enthusiastic graduate students

Diophantine Inequalities in Fields of Formal Laurent Power Series Satish Kumar Aggarwal, 1965 MATHEMATICAL MONOGRAPHS NO. 13.: THE THEORY OF NUMBERS ROBERT D. CARMICHAEL, 1914 **The Theory of Numbers** Robert Daniel Carmichael, 1914 Combinatory Analysis Percy Alexander MacMahon, 1916 **Transactions of the Cambridge Philosophical Society** Cambridge Philosophical Society, 1904 **Sequences, Discrepancies and Applications** Michael Drmota, Robert F. Tichy, 2006-11-14 The main purpose of this book is to give an overview of the developments during the last 20 years in the theory of uniformly distributed sequences The authors focus on various aspects such as special sequences

metric theory geometric concepts of discrepancy irregularities of distribution continuous uniform distribution and uniform distribution in discrete spaces Specific applications are presented in detail numerical integration spherical designs random number generation and mathematical finance Furthermore over 1000 references are collected and discussed While written in the style of a research monograph the book is readable with basic knowledge in analysis number theory and measure theory

Encyclopaedia of Mathematics Michiel Hazewinkel, 2013-12-01 **Philosophical Transactions of the Royal Society of London**, 1899 *Memoir on the Theory of the Partitions of Numbers* Percy Alexander Macmahon, 1899

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