

**Memorial Conference on Analytic  
Number Theory and Applications  
Dedicated to the 130th Anniversary  
of I. M. Vinogradov**



**Moscow — Velikie Luki,  
September 13 – 17, 2021**

## **CHAIRMEN OF THE PROGRAMM COMMITTEE:**

**CHUBARIKOV Vladimir Nikolaevich**

## **PROGRAM COMMITTEE:**

**CHUBARIKOV Vladimir Nikolaevich**

**KONYAGIN Sergei Vladimirovich**

**KOROLEV Maxim Aleksandrovich**

## **ORGANIZING COMMITTEE:**

**BOBKINA Tatiana Gennad'evna**

**KONYAGIN Sergei Vladimirovich**

**KOROLEV Maxim Aleksandrovich**

## **INSTITUTIONS:**

**Steklov Mathematical Institute of Russian Academy of Sciences, Moscow**

**Memorial House of Academician I.M. Vinogradov, Velikie Luki**

**Steklov International Mathematical Center, Moscow**

## **FINANCIAL SUPPORT:**

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**Join the Conference:**

<https://mi-ras-ru.zoom.us/j/91681481660?pwd=eHg1MTBraU9JbzhObVpSSmttcDBsQT09>

**Conference identifier: 916 8148 1660**

**Password: 790526**

**Time:**

**September 13, 11-00 AM (Moscow time)**

**September 14, 10-30 AM (Moscow time)**

## Monday, September 13, 2021

11-00 – 11-05	Opening of the Conference. D.V. TRESHEV, <i>Welcoming address to the participants</i>
11-10 – 11-40	V.N. CHUBARIKOV, <i>Scientific heritage of I.M. Vinogradov: The method of trigonometrical sums and its development</i>
11-40 – 11-55	<i>Time for questions to the talk and for the next speaker to prepare</i>
11-55 – 12-25	YU.V. NESTERENKO, <i>Rational approximations to <math>\pi</math> (after works of Salikhov, Zeilberger, Zudilin)</i>
12-25 – 12-40	<i>Time for questions to the talk and for the next speaker to prepare</i>
12-40 – 13-10	K. MATOMÄKI, <i>Singmaster's conjecture in the interior of Pascal's triangle</i>
13-10 – 13-25	<i>Time for questions to the talk and for the next speaker to prepare</i>
13-25 – 13-55	T.G. BOBKINA, « <i>Eternal talk of letters...</i> »
13-55 – 14-10	<i>Time for questions to the talk</i>
14-10 – 15-00	<i>Dinner Time</i>
15-00 – 15-30	J. BRÜDERN, <i>Variants of the Barban-Montgomery-Hooley formula in additive number theory</i>
15-30 – 15-45	<i>Time for questions to the talk and for the next speaker to prepare</i>

15-45 – 16-15	V.V. IUDELEVICH, <i>On «rough» numbers represented by the sum of two squares</i>
16-15 – 16-30	<i>Time for questions to the talk and for the next speaker to prepare</i>
16-30 – 17-00	A.J. HARPER, TBA
17-00 – 17-15	<i>Time for questions to the talk and for the next speaker to prepare</i>
17-15 – 17-45	A.V. SHUTOV, <i>On some analogs of Eminyan's problem</i>
17-45 – 18-00	<i>Time for questions to the talk and for the next speaker to prepare</i>
18-00 – 18-30	O. RAMARE, <i>Arithmetical trigonometric polynomials at small height rationals</i>
18-30 – 18-45	<i>Time for questions to the talk and the closure of 1<sup>st</sup> day</i>

## Tuesday, September 14, 2021

10-30 – 11-00	M.B. SKOPENKOV, A.V. USTINOV, <i>Feynman Checkers: Number Theory in Quantum Electrodynamics</i>
11-00 – 11-15	<i>Time for questions to the talk and for the next speaker to prepare</i>
11-15 – 11-45	M.A. KOROLEV, <i>Titchmarsh phenomenon in the theory of Riemann zeta-function (joint work with S.V. Konyagin)</i>
11-45 – 12-00	<i>Time for questions to the talk and for the next speaker to prepare</i>
12-00 – 12-30	A.A. ILLARIONOV, <i>The discrepancy of the Korobov-Hlawka sequences</i>
12-30 – 12-45	<i>Time for questions to the talk and for the next speaker to prepare</i>
12-45 – 13-15	J. PINTZ, <i>Vinogradov's method and density theorems for Riemann's zeta-function</i>
13-15 – 13-30	<i>Time for questions to the talk and for the next speaker to prepare</i>
13-30 – 14-00	N.K. SEMENOVA, <i>The estimates of short weighted Kloosterman sums</i>
14-00 – 14-10	<i>Time for questions</i>
14-10 – 15-00	<i>Dinner Time</i>

15-00 – 15-30	B. KERR, <i>Character sums over shifted primes and composite modulus</i>
15-30 – 15-45	<i>Time for questions to the talk and for the next speaker to prepare</i>
15-45 – 16-15	G.V. VOSKRESENSKAYA, <i>The study of structure of spaces of modular forms by the method of cutting</i>
16-15 – 16-30	<i>Time for questions to the talk and for the next speaker to prepare</i>
16-30 – 17-00	T. WOOLEY, <i>Paucity problems and some relatives of Vinogradov's mean value theorem</i>
17-00 – 17-15	<i>Time for questions to the talk and for the next speaker to prepare</i>
17-15 – 17-45	N.G. MOSHCHEVITIN, <i>On the distribution of (non)primitive lattice points</i>
17-45 – 18-00	<i>Time for questions to the talk and for the next speaker to prepare</i>
18-00 – 18-30	A.B. KALMYNIN, <i>Positivity of character sums and random multiplicative functions</i>
18-30 – 18-45	<i>Time for questions to the talk and the closure of 2<sup>nd</sup> day</i>

## LIST OF PARTICIPANTS

**BOBKINA, Tatiana Gennad'evna**

museumimv1891@mail.ru

*Memorial House of Academician I.M. Vinogradov, Velikie Luki, Russia*

**BRÜDERN, Jörg**

joerg.bruedern@mathematik.uni-goettingen

*Mathematisches Institut, Georg-August-Universität Göttingen, Germany*

**CHUBARIKOV, Vladimir Nikolaevich**

chubarik2020@mail.ru

*Lomonosov Moscow State University, Faculty of Mechanics and Mathematics,  
Moscow, Russia*

**HARPER, Adam**

A.Harper@warwick.ac.uk

*University of Warwick, Mathematics Institute, Coventry, England*

**ILLARIONOV, Andrei Anatol'evich**

illar\_a@list.ru

*Khabarovsk Division of the Institute for Applied Mathematics, Far Eastern Branch,  
Russian Academy of Sciences, Khabarovsk, Russia*

**IUDELEVICH, Vitalii Victorovich**

vitaliyyudelevich@mail.ru

*Lomonosov Moscow State University, Faculty of Mechanics and Mathematics,  
Moscow, Russia*



**KALMYNIN, Aleksandr Borisovich**

alkalb1995cd@mail.ru

*Steklov Mathematical Institute of Russian Academy of Sciences, Steklov International Mathematical Center, Moscow, Russia; National Research University «Higher School of Economics», Moscow, Russia*

**KERR, Bryce**

bryce.kerr89@gmail.com

*Max-Planck-Institut für Mathematik, Bonn, Germany*

**KOROLEV, Maxim Aleksandrovich**

korolevma@mi-ras.ru

*Steklov Mathematical Institute of Russian Academy of Sciences, Steklov International Mathematical Center, Moscow, Russia*

**MATOMÄKI, Kaisa**

ksmato@utu.fi

*University of Turku, Department of Mathematics and Statistics, Turku, Finland*

**MOSHCHEVITIN, Nikolai Germanovich**

moshchevitin@gmail.com

*Lomonosov Moscow State University, Faculty of Mechanics and Mathematics, Moscow, Russia*

**NESTERENKO, Yuri Valentinovich**

nester@mi-ras.ru

*Lomonosov Moscow State University, Faculty of Mechanics and Mathematics, Moscow, Russia*

**PINTZ, Janos**

pintz.janos@renyi.mta.hu

*Alfréd Rényi Institute of Mathematics, Budapest, Hungary*

**RAMARE, Olivier**

olivier.ramare@univ-amu.fr

*Institut de Mathématiques de Marseille, Marseille, France*

**SEMENOVA, Natalia Kirillovna**

snkone132@mail.ru

*Lomonosov Moscow State University, Faculty of Mechanics and Mathematics,  
Moscow, Russia*

**SKOPENKOV, Mihail Borisovich**

mikhail.skopenkov@gmail.com

*Lomonosov Moscow State University, Faculty of Mechanics and Mathematics,  
Moscow, Russia*

**SHUTOV, Anton Vladimirovich**

a1981@mail.ru

*Vladimir State University named after Alexander and Nikolay Stoletovs, Vladimir,  
Russia*

**TRESCHEV, Dmitry Valer'evich**

treschev@mi-ras.ru

*Steklov Mathematical Institute of Russian Academy of Sciences, Steklov  
International Mathematical Center, Moscow, Russia, Lomonosov Moscow State  
University, Faculty of Mechanics and Mathematics, Moscow, Russia*

**USTINOV, Alexey Vladimirovich**

ustinov.alexey@gmail.com

*Khabarovsk Division of the Institute for Applied Mathematics, Far Eastern Branch,  
Russian Academy of Sciences, Khabarovsk, Russia*

**VOSKRESENSKAYA, Galina Valentinovna**

galvosk@mail.ru

*Samara National Research University, Samara, Russia*

**WOOLEY, Trevor**

twooley@purdue.edu

Purdue University, West Lafayette, United States of America

$$(6a \pm 1) \mp 6$$

$$(6a \pm 1) \mp 6$$

$$\frac{6a^2 \mp (6a \pm 1)^2}{27}$$

$$36a^2 \pm 12a \pm 1$$

$$\alpha \equiv 6a^2 \pm 2a \pm (6a \pm 1)$$

$$\alpha \equiv -6a^2 \pm 2a \pmod{36}$$

$$\alpha \equiv \pm a \pmod{6a \pm 1}$$

## DIFFERENCE IN TIME

Bonn	10 – 00
Budapest	10 – 00
Coventry	09 – 00
Göttingen	10 – 00
Khabarovsk	18 – 00
Marseille	10 – 00
Moscow	11 – 00
Samara	12 – 00
Turku	11 – 00
Vladimir	11 – 00
West Lafayette	04 – 00