

Scientific programme
of the international conference
“Diophantine analysis, uniform distributions and applications”

Monday, August 25th

10.00–13.00

Plenary talks.

Chairman: **A. Shinzel.**

10.00–10.50

Yu. Bilu (France). *Divisibility of class numbers.*

10.55–11.45

K. Gyory (Hungary). *Perfect powers from products of consecutive terms in an arithmetic progression.*

11.45–12.10

Coffee break

12.10–13.00

Yu. Nesterenko (Russia). *Algebraic independence of values of analytic functions.*

13.00–15.00

Lunch break

15.00–17.00

Section talks

Chairman: **Yu. Nesterenko.**

15.00–15.30

K. Väänänen (Finland). *On linear independence of theta values.*

15.30–16.00

M. Amou (Japan). *Arithmetic properties of certain q -series.*

16.10–16.25

I. Shkredov (Russia). *On recurrence in the average.*

16.25–16.40

O. German (Russia). *Sails and norm minima of lattices.*

16.40–16.55

V. Ilkiv (Ukraine). *Small denominators for the Dirichlet problem on a disk.*

Tuesday, August 26th

9.00–13.00

Plenary talks.

Chairman: **K.Gyory.**

9.00–9.50

D. Kleinbock (USA). *Diophantine exponents of measures: a dynamical approach.*

9.55–10.45

A. Shinzel (Poland). *Vectors where space contains a given linear subspace.*

10.45–11.10

Coffee break

11.10–11.40

L. Gutnik (Russia). *On linear combinations of logarithms of algebraic numbers with algebraic coefficients.*

11.50–12.20

A. Pinter (Hungary) *On the equation*
$$1^k + 2^k + \dots + x^k = y^z.$$

12.25–12.55

A. Raigorodskii (Russia). *Colouring the Erdős unit-distance graphs.*

13.00–15.00

Lunch break

15.00–17.00

Section talks

Chairman: **D. Kleinbock.**

15.00–15.15

Yu. Baoulina (Russia). *On a special character sum.*

15.15–15.30

B. Ptashnyk, M. Symotyuk (Ukraine). *Small denominators in multipoint problems for partial differential equations.*

15.30–15.45

E. Kovalevskaya (Belarus). *Diophantine approximation with respect to different valuations.*

15.55–16.10

D. Bodyagin (Belarus). *On evaluation of a sum of products of inverse distances to the nearest integer.*

16.10–16.25

Ya. Radyna, Ye. Radyna (Belarus). *Spectrum of adelic Vladimirov operator.*

Wednesday , August 27th

9.00–13.00

Plenary talks.

Chairman: **M. Dodson.**

9.00–9.50

M. Huxley (United Kingdom) (*title of the talk will be given later*).

9.55–10.45

Ye. Matveev (Russia). *Development and new ideas in the theory of linear forms in logarithms.*

10.45–11.00

Coffee break

11.00–11.45

P. Bundschuh (Germany). *Algebraic independence over $\mathbb{Q}_p$.*

11.50–12.40

B. Moroz (Germany). *On the representation of primes by polynomials (a survey of some recent results)*

12.40–14.15

Lunch break

14.15–14.30

Photographic session (Hall of BGATU)

14.30–18.00

Visit to the museum of Belarusian wooden architecture (Ptych)

Thursday, August 28th

9.00–13.00

Plenary talks.

Chairman: **P. Bundschuh.**

9.00–9.50

N. Moshchevitin (Russia). *Multi-dimensional Diophantine approximations.*

9.55–10.45

M. Skriganov (Russia). *Harmonic analysis on totally disconnected groups and irregularities of point distributions.*

10.45–11.10

Coffee break

11.10–11.40

A. Laurinchikas (Lithuania). *Some analytic properties for L -functions of elliptic curves.*

11.45–12.15

M. Dodson (United Kingdom). *Diophantine approximation over the real and complex numbers.*

12.20–12.50

N. Kalosha (Belarus). *Benford's law and rational approximations of logarithms of real numbers.*

13.00–15.00

Lunch break

15.00–17.00

Section talks

Chairman: **B. Moroz.**

15.00–15.15

Ya. Kholyavka (Ukraine). *On some arithmetic properties of constants related to theta functions.*

15.15–15.30

L. Trelina (Belarus). *On a local-global principle in number field towers for Thue curves.*

15.30–15.45

L. Rocadas (Portugal). *Mean of the sum of the digits of the Ostrovsky expansion.*

15.55–16.10

N. Selinger, M. Zhihovich (Belarus). *Diophantine approximations on an n -dimensional sphere.*

16.10–16.25

E. Zorin (Belarus). *Leveque's u -points on smooth curves.*

Friday, August 29th

9.00–13.00

Plenary talks.

Chairman: **M. Huxley.**

9.00–9.25

D. Dickinson (United Kingdom) (*the title will be given before the talk*)

9.25–9.50

V. Beresnevich (Belarus). *Some advances and open problems in metric theory of Diophantine approximation.*

9.55–10.45

A. Dubickas (Lithuania). *Variations with Mahler's measure.*

10.45–11.10

Coffee break

11.10–11.40

D. Vasilyev (Belarus). *Integral relations and the values of the Riemann zeta-function at integers.*

11.45–12.15

S. Kristenson (United Kingdom). *Metric diophantine approximations with respect to planar distance functions.*

12.20–12.50

R. Thorn (United Kingdom). *Generalized badly approximable sets.*