



NUMBERS, FUNCTIONS, EQUATIONS

August 26 – September 1, 2018, Hajdúszoboszló, Hungary

August 27, Monday

1ST MORNING SESSION – CHAIR: ATTILA GILÁNYI

- 09:00–09:20 Roman Ger: *Solving alternative functional equations: what for?*
09:25–09:45 Karol Baron: *Weak limit of iterates of random-valued functions and solvability of a linear iterative equation*
09:50–10:10 László Losonczi: *On the zeros of reciprocal polynomials*
10:15–10:35 Zoltán Boros: *Conditionally linked monomial functions*

COFFEE BREAK

2ND MORNING SESSION – CHAIR: OLEKSIY KLURMAN

- 11:00–11:20 Attila Kovács: *On lattice based number systems*
11:25–11:45 Gábor Nagy: *On non-integer based expansions of real numbers in a special form*
11:50–12:10 Gábor Kallós: *Beta expansions and dynamical systems*
12:15–12:35 Péter Burcsi: *Some algorithmic questions in numeration systems*

LUNCH

1ST AFTERNOON SESSION – CHAIR: LAJOS RÓNYAI

- 15:30–15:50 Attila Gilányi: *Solving functional equations with computer*
15:55–16:15 Gergő Bognár: *Geometric interpretation of QRS complexes in ECG signals by rational functions*
16:20–16:40 Levente Lócsi: *The Blaschke group and rational Zernike functions*
16:45–17:05 Ágnes Fülöp: *Interdisciplinarity between the informatics and physics*

COFFEE BREAK

2ND AFTERNOON SESSION – CHAIR: ANTAL JÁRAI

- 17:30–17:50 Lajos Rónyai: *Recent results on norm-graphs*
17:55–18:15 Nicolas Doyon: *A transition theorem for connected feedforward graphs*
18:20–18:40 Bálint Daróczy: *Riemann manifolds on hierarchical structures*

DINNER



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August 28, Tuesday

1ST MORNING SESSION – CHAIR: ZOLTÁN BOROS

- 09:00–09:20 Gintautas Bareikis: *Beta distribution on arithmetical semigroups*
09:25–09:45 Štefan Porubský: *Semigroup structure of sets of solutions to equation $X^m = X^s$*
09:50–10:10 Sergey Varbanets: *Exponential sums over the sequences of PRN's produced by inversive generators*
10:15–10:35 Peter Stadler: *The short ruler on the real projective space*

COFFEE BREAK

2ND MORNING SESSION – CHAIR: LÁSZLÓ SZÉKELYHIDI

- 11:00–11:20 Miklós Laczkovich: *Continuous solutions of the equation $x + g(y + f(x)) = y + g(x + f(y))$*
11:25–11:45 Maciej Sablik: *An elementary method of solving functional equations*
11:50–12:10 Witold Jarczyk: *Continuous solutions of some simultaneous difference equations on a restricted domain*
12:15–12:35 Żywilla Fechner: *Some remarks on a moment functions problem*

LUNCH

1ST AFTERNOON SESSION – CHAIR: LÁSZLÓ SZILI

- 15:30–15:50 Antanas Laurinčikas: *Joint value distribution theorems for the Riemann and Hurwitz zeta functions*
15:55–16:15 Roma Kačinskaitė: *Joint discrete mixed universality for certain zeta- and L-functions*
16:20–16:40 Eugenijus Manstavičius: *Probabilistic number theory on permutations*
16:45–17:05 Gediminas Stepanauskas: *Asymptotical behaviour of arithmetic functions on shifted primes*

COFFEE BREAK

2ND AFTERNOON SESSION – CHAIR: MIKLÓS LACZKOVICH

- 17:30–17:50 Ferenc Weisz: *Variable Hardy spaces and applications in Fourier analysis*
17:55–18:15 György Gát: *Summability of trigonometric and Walsh–Fourier series*
18:20–18:40 Borbála Fazekas: *Walsh–Fourier series solutions of linear differential equations with error estimation*
18:45–19:05 Rodolfo Toledo: *Numerical solution of linear differential equations by Walsh polynomials approach*

DINNER



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August 26 – September 1, 2018, Hajdúszoboszló, Hungary

August 29, Wednesday

1ST MORNING SESSION – CHAIR: OLEG KLESOV

- 09:00–09:20 Jacek Chudziak: *Buying and selling prices under the Rank-Dependent Utility model*
- 09:25–09:45 Patrícia Szokol: *Transformations preserving generalized quasi-arithmetic means of invertible positive operators*
- 09:50–10:10 Gergő Nagy: *Transformations on positive operators with preserver properties related to means*

COFFEE BREAK

2ND MORNING SESSION – CHAIR: MACIEJ SABLIK

- 10:35–10:55 László Horváth: *Sharp estimation for the solutions of inhomogeneous delay differential and Halanay-type inequalities*
- 11:00–11:20 Włodzimierz Fechner: *On a Grüss-type functional inequality*
- 11:25–11:45 Mihály Bessenyei: *Generalized monotonicity in terms of differential inequalities*

LUNCH

– EXCURSION TO TOKAJ –



NUMBERS, FUNCTIONS, EQUATIONS

August 26 – September 1, 2018, Hajdúszoboszló, Hungary

August 30, Thursday

1ST MORNING SESSION – CHAIR: ROMAN GER

09:00–09:50 László Székelyhidi: *Laudation to Zoltán Daróczy*

09:50–10:40 Eszter Gselmann: *Laudation to Gyula Maksa*

COFFEE BREAK

2ND MORNING SESSION – CHAIR: PETER VOLKMANN

11:00–11:30 Gábor Farkas: *Laudation to Imre Kátai*

11:30–12:00 Attila Kovács: *Laudation to Karl-Heinz Indlekofer*

12:00–12:30 Péter Burcsi: *Laudation to Jean-Marie De Koninck*

LUNCH

1ST AFTERNOON SESSION – CHAIR: EUGENIJUS MANSTAVIČIUS

15:00–15:30 Péter Burcsi: *Laudation to Bui Minh Phong*

15:30–16:00 Ferenc Weisz: *Laudation to Sándor Fridli*

– FESTIVE DINNER IN DEBRECEN –



NUMBERS, FUNCTIONS, EQUATIONS

August 26 – September 1, 2018, Hajdúszoboszló, Hungary

August 31, Friday

1ST MORNING SESSION – CHAIR: GEDIMINAS STEPANAUSKAS

- 09:00–09:20 Oleg Klesov: *Dual objects in function theory, probability theory, and number theory*
- 09:25–09:45 Oleksiy Klurman: *Joint distribution of values of multiplicative functions*
- 09:50–10:10 Vincent Ouellet: *On the middle prime factors of integers*
- 10:15–10:35 Gábor Román: *On the expected number of curve orders during the Atkin–Morain primality test*

COFFEE BREAK

2ND MORNING SESSION – CHAIR: FERENC WEISZ

- 11:00–11:20 Károly Nagy: *Cone-like restricted summability of the two-dimensional Walsh- and Walsh–Kaczmarz means*
- 11:25–11:45 István Blahota: *Approximation by Theta-means*
- 11:50–12:10 Zsolt Németh: *Projection properties of de la Vallée Poussin type operators*
- 12:15–12:35 Kristóf Szarvas: *The boundedness of the Cesaro means in variable dyadic Hardy spaces*

LUNCH

1ST AFTERNOON SESSION – CHAIR: WITOLD JARCZYK

- 15:30–15:50 Dorota Głazowska: *On weighted quasi-arithmetic means which are convex*
- 15:55–16:15 Zsolt Páles: *Equality of Bajraktarević means with quasi-arithmetic means*
- 16:20–16:40 Amr Zakaria: *Invariance of a symmetric Bajraktarević mean with respect to two nonsymmetric Bajraktarević means*
- 16:45–17:05 Pál Burai: *On symmetry of Makó–Páles means*

COFFEE BREAK

2ND AFTERNOON SESSION – CHAIR: KAROL BARON

- 17:30–17:50 Tibor Kiss: *On two functional equations related to equality problem of means*
- 17:55–18:15 Paweł Pasteczka: *Jensen-type geometric shapes*
- 18:20–18:40 Peter Volkmann: *An application of a comparison theorem for functional equations*

DINNER