

54th International Symposium on Functional Equations

June 12 - 19, 2016, Hajdúszoboszló, Hungary

June 13, Monday

1ST MORNING SESSION – CHAIR: GYULA MAKSA

- 09:00–09:10 Opening
09:10–09:55 Roman Badora: *Stability and functional analysis*
10:00–10:20 Imke Toborg: *Algebraic conditions for the stability of the Cauchy functional equation*
10:25–10:45 Anna Bahyrycz: *Stability and hyperstability of some functional equation on restricted domain*

COFFEE BREAK 10:50–11:10

2ND MORNING SESSION – CHAIR: ZYGFRYD KOMINEK

- 11:10–11:30 Roman Ger: *Mazur's type problem for convexity of higher order*
11:35–11:55 Judit Makó: *On strongly convex functions*
12:00–12:20 Bella Popovics: *Convex structures induced by Chebyshev systems*
12:25–12:45 Pál Burai: *On certain Schur-convex functions*

LUNCH 13:00–14:00

1ST AFTERNOON SESSION – CHAIR: JUSTYNA SIKORSKA

- 15:00–15:20 Moshe Goldberg: *Computing the radius in matrix algebras*
15:25–15:45 Gian Luigi Forti: *Some results about an alternative quadratic functional equation*
15:50–16:10 Włodzimierz Fechner: *A functional equation motivated by a trigonometric identity*

COFFEE BREAK 16:15–16:45

2ND AFTERNOON SESSION – CHAIR: MOSHE GOLDBERG

- 16:45–17:05 Lajos Molnár: *Commutativity in operator algebras*
17:10–17:30 Patrícia Szokol: *Trace and determinant preserving maps*
17:35–17:55 Gergő Nagy: *Isometries on structures of Hilbert space operators*

DINNER 18:00–21:00

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June 14, Tuesday

1ST MORNING SESSION – CHAIR: LAJOS MOLNÁR

- 09:00–09:20 Janusz Brzdęk: *Stability of a pexiderized sigma-quadratic functional equation on semigroups*
- 09:25–09:45 Krzysztof Ciepliński: *On a functional equation characterizing multi-Cauchy-Jensen mappings and its stability*
- 09:50–10:10 Gwang Hui Kim: *The stability of the functional equation related to measures: a fixed point approaching*
- 10:15–10:35 Radosław Łukasik: *The form of multi-additive and symmetric functions*

COFFEE BREAK 10:40–11:10

2ND MORNING SESSION – CHAIR: LÁSZLÓ SZÉKELYHIDI

- 11:10–11:30 Attila Gilányi: *On conditionally polynomial functions*
- 11:35–11:55 Jose Maria Almira: *On Popoviciu-Ionescu functional equation*
- 12:00–12:20 Ekaterina Shulman: *On polynomial functions on non-commutative groups*
- 12:25–12:45 Problems and Remarks

LUNCH 13:00–14:00

SPECIAL SESSION I. – CHAIR: KAZIMIERZ NIKODEM

- 15:00–15:20 Kazimierz Nikodem: *Multifunctions in the theory of functional equations*
- 15:25–15:45 Justyna Sikorska: *A method of solving some functional equations for set-valued functions*
- 15:50–16:10 Magdalena Piszczek: *Inclusions and stabilities*

COFFEE BREAK 16:15–16:45

SPECIAL SESSION II. – CHAIR: KAZIMIERZ NIKODEM

- 16:45–17:05 Justyna Jarczyk: *Joining means*
- 17:10–17:30 Szymon Wąsowicz: *Hermite-Hadamard-type inequalities for convex set-valued functions*
- 17:35–17:55 Problems and Remarks

DINNER 18:00–21:00

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June 15, Wednesday

1ST MORNING SESSION – CHAIR: MAREK CEZARY ZDUN

- 09:00–09:20 Jaroslav Smítal: *Generalized Dhombres equation in the real case - completed program?*
- 09:25–09:45 Marta Štefánková: *On generic and dense chaos for maps induced on hyperspaces*
- 09:50–10:10 Weinian Zhang: *Find all iterative roots for PM functions of height 1*
- 10:15–10:35 Liu Liu: *Discontinuous function with continuous second iterate*

COFFEE BREAK 10:40–11:10

2ND MORNING SESSION – CHAIR: WEINIAN ZHANG

- 11:10–11:30 Marek Cezary Zdun: *On regularly varying solutions of Schröder equation*
- 11:35–11:55 Karol Baron: *Lipschitzian solutions to inhomogeneous linear iterative equations*
- 12:00–12:20 Janusz Morawiec: *Lipschitzian solutions to inhomogeneous linear iterative equations revisited*
- 12:25–12:45 Problems and Remarks

LUNCH 13:00–14:00

EXCURSION TO HORTOBÁGY WITH DINNER AT TUBA TANYA 14:00–22:00

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June 16, Thursday

1ST MORNING SESSION – CHAIR: JANUSZ MATKOWSKI

- 09:00–09:20 Fruzsina Mészáros: *Further results on a multiplicative type functional equation*
09:25–09:45 Zoltán Boros: *Conditional equations for quadratic functions*
09:50–10:10 Martin Himmel: *Beta-type functions and means*
10:15–10:35 Tomasz Małolepszy: *On the translativity of beta-type functions*

COFFEE BREAK 10:40–11:10

2ND MORNING SESSION – CHAIR: MIHÁLY BESSENYEI

- 11:10–11:30 László Horváth: *New versions of weighted multidimensional functional and Stolarsky means*
11:35–11:55 Dorota Głazowska: *Regularity theorem for a problem of the invariance in the class of Lagrange means*
12:00–12:20 Paweł Pasteczka: *Estimating the distance among quasi-arithmetic means: the journey so far*
12:25–12:45 Problems and Remarks

LUNCH 13:00–14:00

1ST AFTERNOON SESSION – CHAIR: HENRIK STETKAER

- 15:00–15:20 Jacek Chmieliński: *Operators reversing orthogonality*
15:25–15:45 Paweł Wójcik: *On functional equation $f(p(x)) = f(x)$ and invariant subspaces*
15:50–16:10 Zbigniew Leśniak: *On the topological conjugacy of flows of Brouwer homeomorphisms*

COFFEE BREAK 16:15–16:45

2ND AFTERNOON SESSION – CHAIR: HARALD FRIPERTINGER

- 16:45–17:05 László Székelyhidi: *Functional equations on affine groups*
17:10–17:30 Żywilla Fechner: *Sine functions on hypergroups*
17:35–17:55 Csaba Vincze: *On the discrete Pompeiu problem*

DINNER 18:00–21:00

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June 17, Friday

1ST MORNING SESSION – CHAIR: GIAN-LUIGI FORTI

- 09:00–09:20 Ludwig Reich: *Deviation from commutativity in the Möbius group*
09:25–09:45 Jörg Tomaschek: *Normal forms of functional-differential equations of Beardon type in the complex domain*
09:50–10:10 Mihály Bessenyei: *Linear functional equations involving finite substitutions*
10:15–10:35 Wojciech Jabłoński: *Algebraic approach to iterations in formal power series rings*

COFFEE BREAK 10:40–11:10

2ND MORNING SESSION – CHAIR: KAROL BARON

- 11:10–11:30 Teresa Rajba: *A solution to the problem of Raşa connected with Bernstein polynomials*
11:35–11:55 Tomasz Szostok: *Functional inequalities connected with numerical differentiation*
12:00–12:20 Harald Fripertinger: *On a functional equation by Th. Rassias*
12:25–12:45 Problems and Remarks

LUNCH 13:00–14:00

1ST AFTERNOON SESSION – CHAIR: ANTAL JÁRAI

- 15:00–15:20 Peter Volkmann: *Existence and uniqueness of the solution of a functional equation by means of a fixed point theorem for monotone operators*
15:25–15:45 Eliza Jabłońska: *Some analogies between Haar meager sets and Haar null sets*
15:50–16:10 Gergely Kiss: *A characterization of associative, idempotent, non-decreasing functions with neutral elements*

COFFEE BREAK 16:15–16:45

2ND AFTERNOON SESSION – CHAIR: NICOLE BRILLOUËT-BELLUOT

- 16:45–17:05 Henrik Stetkaer: *An extension of the cosine addition law*
17:10–17:30 Gyula Maksa: *The dilogarithm function*
17:35–17:55 Witold Jarczyk: *On some properties of strictly convex functions*

FESTIVE DINNER IN IN HOTEL 19:00–

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June 18, Saturday

1ST MORNING SESSION – CHAIR: WITOLD JARCZYK

- 09:00–09:20 Zsolt Páles: *Support theorems in abstract setting I*
09:25–09:45 Andrzej Olbryś: *Support theorems in abstract setting II*
09:50–10:10 Éva Székelyné Radácsi: *A new characterization of convexity with respect to Chebyshev systems*
10:15–10:35 Tibor Kiss: *Reducible means and reducible convexity properties*

COFFEE BREAK 10:40–11:10

2ND MORNING SESSION – CHAIR: EKATERINA SHULMAN

- 11:10–11:30 Maciej Sablik: *Speed of light*
11:35–11:55 Jacek Chudziak: *Positive homogeneity of the principle of equivalent utility*
12:00–12:20 Zdeněk Kočan: *Gołqb-Schinzel equation on cylinders*
12:25–12:45 Problems and Remarks

LUNCH 13:00–14:00

1ST AFTERNOON SESSION – CHAIR: JAROSLAV SMÍTAL

- 15:00–15:20 Adrienn Varga: *On the generalization of a theorem due to Z. Daróczy*
15:25–15:45 Hideaki Izumi: *Dimensioned numbers and functional equations*
15:50–16:10 Paolo Leonetti: *Upper densities have the Darboux property*
16:15–16:35 Xingwu Chen: *Planar quadratic degree-preserving maps and their iteration*

COFFEE BREAK 16:40–17:10

2ND AFTERNOON SESSION – CHAIR: MACIEJ SABLIK

- 17:10–17:40 Closing

DINNER 18:00–21:00