

Program for the Minisymposium “TMSF ‘14”
(In frames of international conference MDS-2014)

Organizer: Virginia Kiryakova, Techn. Secretaries: Yulian Tsankov, Valentin Hristov

Opening of Conference MDS 2014:
9.30 at Sofia Hotel Balkan (in Sofia downtown)

The conference is opened
by the President of the Republic of Bulgaria H.E. Rosen Plevneliev.

07 July – Monday (afternoon, IMI) – TMSF Session 1, Hall 403

14.00 – 14.15: Opening of TMSF’ 14 **Chair: Bl. Sendov**

14.15 – 14.45: V. Kiryakova
On the scientific contributions of Prof. Dimovski,
on occasion of his 80th anniversary

14.45 – 15.30: I. Dimovski (invited talk)
Nonclassical convolutions and their uses

Coffee break: 15.30 – 16.00

Chair: V. Kiryakova

16.00 – 16.45: Bl. Sendov, H. Sendov (invited talk)
Stronger Rolle's theorem for complex polynomials

16.45 – 17.15: P. Rusev
Representation of holomorphic functions by Schlomilch's series

17.15 – 17.45: M. Jelassi
On the convolutors in the DLp type spaces associated with
a singular second order differential operator

Welcome party: 19.00 – 21.00 (Sofia Downtown, Archeological Museum)

08 July – Tuesday, TMSF 14 Events

Chair: G. Dimkov

18.30 – 19.00: TMSF Discussion Table (**Hall 256**)

19.00 – 21.00: **Party for 80th Anniversary of Prof. Ivan Dimovski
(IMI Buffet)**

09 July – Wednesday (afternoon, IMI) – TMSF Session 2, Hall 403

Chair: S. Grozdev

14.30 – 15.15: G. Milovanovic (invited talk)
Nonstandard quadratures of Gauss-Lobatto type
and applications in the fractional calculus

15.15 – 16.00: A. Kaminski (invited talk)
On associativity of the convolution of ultradistributions

Coffee break: 16.00 – 16.30

Chair: E. Bazhlekova

16.30 – 17.00: D. Nemzer
Extending the Stieltjes Transform

17.00 – 17.30: S. Mincheva-Kaminska
On various existence conditions for the convolution of Beurling ultradistributions

17.30 – 18.00: A. Takaci
On the asymptotic behavior of generalized functions

18.00 – 18.30: Dj. Takaci (joint with Al. Takaci)
Some operational solutions of higher order fuzzy differential equations

Banquet (Social Dinner): 20.00 – 23.00 (Sofia Hotel Balkan, former Sheraton)

10 July – Thursday (morning + afternoon, IMI) – TMSF Session 3, Hall 403

Chair: S. Mincheva-Kaminska

9.00 – 9.30: S. Tersian (joint with G. Bonanno, R. Rodriguez-Lopez)

Existence of solutions to boundary value problem
for impulsive fractional equations

9.30 – 10.00: N. Bozhinov, I. Dimovski
Commutant of Sturm-Liouville operator in an invariant subspace

10.00 – 10.30: M. Lukarevski
Evolution equations for the Stefan problem

Coffee Break: 10.30 – 11.00

Chair: S. Tersian

11.00 – 11.30: P. Rajkovic (joint with M. Stankovic, S. Marinkovic)
Polynomials of Mittag-Leffler type

11.30 – 12.00: P. Rajkovic, N. Savic (joint with P. Barry)
Somos-4 property of Hankel determinants derived from number
sequences in an elliptic integral form

12.00 – 12.30: L. Markov
Mean value theorems for analytic functions

12.30 – 13.00: D. Pashkouleva
A note on a subclass of close-to-convex functions

Lunch: 13.00 – 14.30

– TMSF Session 4 , Hall 403

Chair: V. Hristov

14.30 – 15.00: V. Kiryakova
From the hyper-Bessel operators of Dimovski
to the generalized fractional calculus

15.00 – 15.30: J. Paneva-Konovska
A family of hyper-Bessel functions and convergent series in them

15.30 – 16.00: E. Bazhlekova
Application of the operational calculus approach of Dimovski
or solving the backward heat problem

Coffee Break: 16.00 – 16.30

Chair: J. Paneva-Konovska

16.30 – 17.00: E. Bazhlekova, I. Bazhlekov

Simulation of viscoelastic flows with fractional derivative models:
an approach via the operational calculus of Dimovski

17.00 – 17.30: M. Spiridonova

An operational calculus approach for periodic and anti-periodic solutions
in the environment of a computer algebra system

17.30 – 18.00: I. Dimovski, Yu. Tsankov

Explicit solutions of BVPs for multidimensional heat equation

18.00 – 18.30: A. Zahariev (joint with H. Kiskinov, M. Veselinova)

Fractional order linear autonomous system with distributed delay

18.30 – 19.00: Closing of TMSF '14 Minisymposium