

SECTION “ALGEBRA AND MATRICES”

MONDAY, JULY 23, 5 FLOOR HALL
SECTION “ALGEBRA AND MATRICES”

CHAIR: **Alexander Guterman**

14:30-15:00 **Bojan Kuzma**

Institute of Mathematics, Physics, and Mechanics, Ljubljana, Slovenia

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PRESERVING ZEROS OF JORDAN TRIPLE PRODUCTS

15:00-15:30 **Vadim N. Chugunov and Khakim D. Ikramov**

Institute of Numerical Mathematics, RAS; Moscow State University

vadim@bach.inm.ras.ru, ikramov@cs.msu.su

ON A GENERAL APPROACH TO DERIVING THE KNOWN CLASSES OF NORMAL HANKEL MATRICES

15:30-16:00 **Ajda Fošner**

University of Maribor, Faculty of Natural Sciences and Mathematics, Slovenia

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NON-LINEAR COMMUTATIVITY PRESERVING MAPS ON SYMMETRIC MATRICES

16:00-16:30 COFFEE-TEA BREAK (6 FLOOR)

CHAIR: **Stéphane Gaubert**

16:30-17:00 **Vassili N. Kolokoltsov**

Moscow Institute of Economics (Russia); Dept. of Stat., University of Warwick (UK)

vkolok@fsmail.net

ON THE CONNECTION BETWEEN THE REGULARITY OF MATRICES OVER IDEMPOTENT SEMIRINGS AND THE SOLUTIONS TO THE ASSIGNMENT PROBLEM

17:00-17:30 **Grigori L. Litvinov, G. B. Shpiz**

Independent University of Moscow

glitvinov@mail.ru

DEQUANTIZATION OF LINEAR OPERATORS

17:30-18:00 **Vladimir Protasov**

Department of Mechanics and Mathematics, Moscow State University, Russia

v-protasov@yandex.ru

BOUNDED SEMIGROUPS OF MATRICES AND THE GRAPH TRACTABILITY PROBLEM

18:00-18:30 **Stéphane Gaubert, Sergeï Sergeev**

INRIA-Rocquencourt, France; Moscow State University, Moscow

Stephane.Gaubert@inria.fr, sergiej@gmail.com

CYCLIC PROJECTORS IN SEMIMODULES OVER THE MAX-PLUS SEMIRING

TUESDAY, JULY 24, 5 FLOOR HALL
SECTION "ALGEBRA AND MATRICES"

CHAIR: **Bojan Kuzma**

- 14:30-15:00 **Ajda Fošner and Maja Fošner**
University of Maribor, Faculty of Logistics, Slovenia
maja.fosner@uni-mb.si
ON SUPERDERIVATIONS AND LOCAL SUPERDERIVATIONS
- 15:00-15:30 **Tatjana Petek**
University of Maribor, Slovenia
tatjana.petek@uni-mb.si
MAPPINGS PRESERVING THE IDEMPOTENCY OF PRODUCTS OF OPERATORS
- 15:30-16:00 **Sergei N. Ilyin, D. R. Timurshin**
Kazan State University, Russia
Sergey.Ilyin@ksu.ru
ON REGULARITY IN THE SENSE OF VON NEUMANN OF COMPLETE MATRIX SEMIRINGS OVER
ADDITIVELY REGULAR SEMIRINGS
- 16:00-16:30 COFFEE-TEA BREAK (6 FLOOR)
- CHAIR: **Vladimir Protasov**
- 16:30-17:00 **Elena Kreines**
Moscow State University
kreines@itep.ru
DESSINS D'ENFANTS, GENERALIZED CHEBYSHEV POLYNOMIALS, AND ANTI-VANDERMONDE
SYSTEMS OF EQUATIONS
- 17:00-17:30 **Grigori L. Litvinov**
Independent University of Moscow
glitvinov@mail.ru
LINEAR METHODS AND ERROR AUTOCORRECTION IN RATIONAL APPROXIMATION
- 17:30-18:00 **Elena I. Bunina, Pavel P. Semenov**
Department of Mechanics and Mathematics, Moscow State University, Russia
helenbunina@yandex.ru
AUTOMORPHISMS OF THE SEMIGROUP OF INVERTIBLE MATRICES WITH NONNEGATIVE ELE-
MENTS OVER COMMUTATIVE PARTIALLY ORDERED RINGS
- 18:00-18:20 **Nadya Zharko**
Mech.-Math. Faculty, Kiev National University, Ukraine
n.zharko@mail.ru
POSITIVITY CRITERIA GENERALIZING THE LEADING PRINCIPAL MINORS CRITERION
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THURSDAY, JULY 26, 5 FLOOR HALL
SECTION "ALGEBRA AND MATRICES"

CHAIR: **Elena Bunina**

14:30-15:00 **Vladimir B. Khazanov**

St.-Petersburg State Marine Technical University
`khazanovvb@mail.ru`

ON SOLVING SPECTRAL PROBLEMS FOR NONLINEAR MULTIPARAMETER MATRICES

15:00-15:30 **Tatjana Nahtman, Dietrich von Rosen**

University of Tartu (Estonia); Swedish University of Agricultural Sciences (Sweden)
`dietrich.von.rosen@bt.slu.se`

ON A CLASS OF SINGULAR STRUCTURED MATRICES WITH INTEGER SPECTRA

15:30-16:00 **Olga V. Markova**

Moscow State University, Mathematics and Mechanics Dept., Russia
`ov_markova@mail.ru`

MATRIX ALGEBRAS AND THEIR LENGTH

16:00-16:30 COFFEE-TEA BREAK (6 FLOOR)

CHAIR: **Vladimir Sergeichuk**

16:30-17:00 **Elena I. Bunina**

Moscow State University, Russia
`helenbunina@yandex.ru`

AUTOMORPHISMS OF ADJOINT CHEVALLEY GROUPS OVER LOCAL RINGS

17:00-17:30 **Evgeny E. Marenich**

Murmansk State Pedagogic University
`marenich1@yandex.ru`

CALCULATION OF THE SCHEIN RANK FOR BOOLEAN MATRICES

17:30-18:00 **Vladimir M. Prokip**

Institute for Applied Problems of Mechanics and Mathematics, Lviv (Ukraine)
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REDUCTION OF MATRICES OVER A DOMAIN OF PRINCIPAL IDEALS TO THE SMITH NORMAL
FORMS BY MEANS OF THE SAME ONE-SIDED TRANSFORMATIONS

FRIDAY, JULY 27, 5 FLOOR HALL
SECTION "ALGEBRA AND MATRICES"

CHAIR: **Evgeny E. Marenich**

09:00-09:30 **Iya N. Klochkova**

Institute of Atmospheric Physics, RAS, Moscow
iyanickel@gmail.com

SPECIAL TYPES OF NONNEGATIVE MATRICES, ITS CHARACTERISTICS AND APPLICATION

09:30-10:00 **Valentina E. Marenich**

Murmansk State Pedagogic University
VMarenich@yandex.ru

LATTICES OF MATRIX ROWS AND MATRIX COLUMNS

10:00-10:30 **Maxim Bershadsky**

Ben-Gurion University of the Negev, Sapir Academic College,
maximb@bgu.ac.il, maximb@mail.sapir.ac.il

ON RANKS OF SPATIAL MATRICES

10:30-11:00 COFFEE-TEA BREAK (6 FLOOR)

CHAIR: **Grigori Litvinov**

11:00-11:30 **Evgeny S. Balmassov**

Moscow State University, Russia
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ELEMENTARY EQUIVALENCE OF UNITARY LINEAR GROUPS

11:30-12:00 **Olga A. Vaysman**

Lomonosov Moscow State University
science@land.ru

FACTOR RANK OF NON-NEGATIVE MATRICES WITH FIXED CLASSICAL RANK

12:00-12:30 **Sergeï Sergeev**

Moscow State University, Russia
sergiej@gmail.com

ON EXTENSIONS OF THE CLOSURE OPERATION FOR MATRICES OVER THE MAX-PLUS SEMIRING

12:30-13:00 **Laurent Truffet**

Ecole des Mines de Nantes, Dpt Automatique et Productique, Nantes (France)
Laurent.Truffet@emn.fr

MONOTONICITY OF OPERATOR WITH RESPECT TO PREORDERING GENERATED BY COUPLING
OF SUBADDITIVE MEASURES