

The 26th Conference on Applied and Industrial Mathematics

CAIM 2018

September 20–23, 2018, Chişinău

Programme

General Schedule

Thursday, September 20, 2018

14.00-20.00	Registration Building of Study no. 6, TUM 8/9 Studentilor, MD-2045, Chişinău
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Friday, September 21, 2018

09.00-10.00	Opening Ceremony, TEKWILL Hall Studentilor Street, 9/11, Chişinău
10.00-11.20	Plenary Lectures
11.20-11.40	<i>Coffee Break</i>
11.40-13.00	Communications
13.00-14.40	<i>Lunch</i>
14.40-16.40	Communications
16.40-17.00	<i>Coffee Break</i>
17.00-19.00	Communications

Saturday, September 22, 2018

09.00-10.20	Plenary Lectures
10.20-10.40	<i>Coffee Break</i>
10.40-11.20	Plenary Lectures
11.30-12.50	Communications
12.50-14.20	<i>Lunch</i>
14.20-16.20	Communications
16.20-16.40	<i>Coffee Break</i>
16.40-18.00	Communications
18.30-19.30	ROMAI General Assembly
19.30-22.50	Official Dinner

Sunday, September 23, 2018

Excursion: Purcari
Departure of participants

Scientific Communications

Section	Friday		Saturday	
	Room	Time	Room	Time
Plenary Lecture	Hall TEKWILL	10.00-11.20	Aula 3-II	09.00-11.20
1 PDE			Aula 3-224	11.30-17.00
2 ODE	Aula 3-224	11.40-19.00		
3 Math. Model			Aula 3-118	11.30-18.00
4 Analysis	Aula 3-118	11.40-19.00		
5 Probability			Aula 3-202	11.30-16.20
6 Alg&Geometry	Aula 3-208	11.40-19.00	Aula 3-208	10.40-18.00
7 Computer	Aula 3-202	11.40-16.40		
8 Educational	Aula 3-201	11.40-19.00	Aula 3-201	10.40-18.00

Plenary Lectures
Friday, September 21

Hall TEKWILL

Chairman: Costică Moroşanu

10.00-10.40 **Mitrofan M. Cioban, Ivan A. Budanaev**
Scattered and Digital Topologies in Information Sciences

10.40-11.20 **Rolf Jeltsch**
Recent developments on numerical solutions for hyperbolic systems of conservation laws

Saturday, September 22

Aula 3-II

Chairman: Călin Ioan Gheorghiu

09.00-09.40 **Tudor Barbu**
Overview of Nonlinear Partial Differential Equation-based Structural Inpainting Technique

09.40-10.20 **Viorel Bostan**
Reserved

10.40-11.20 **Ion Tighineanu, Petru Bogatencov, Grigore Secrieru**
The national e-Infrastructure RENAM for the development of high-performance computing and

Partial Differential Equations
Saturday, September 22

Aula 3–224

Chairman: Maria-Magdalena Boureanu, Iurie Baltag

11.30- N.V. Snizhko
11.50 *The Border Problem of the Ring Domain Deformation*

11.30- Dragan, Irinel
11.50 *Egalitarian Allocations and the Inverse Problem for the Shapley Value*

11.50- Costica Morosanu
12.10 *Errors analysis for two methods approximating the classical Caginalp's model*

12.10- Dmitrieva Irina
12.30 *Explicit solutions of the differential systems and mathematical modelling in electrodynamics*

12.30- Inverse problem for a two-dimensional strongly degenerate heat equation
12.50 *Mykola Ivanchov, Vitaliy Vlasov*

Partial Differential Equations
Saturday, September 22

Aula 3–224

Chairman: Dmitrieva Irina, Mykola Ivanchov

14.20- Iurie Baltag
14.40 *Estimates for Solutions to Partial Quasilinear Differential Equations*

14.40- Maria-Magdalena Boureanu
15.00 *Weak solutions for a class of higher-order PDEs*

15.00- Lucian Maticiuc
15.20 *Viscosity solutions for functional parabolic PDEs with Neumann nonlinear boundary conditions. A stochastic approach via BSDEs with time-delayed generators*

15.20- Secieru Ivan
15.40 *Construction and analysis of approximate schemes for the evolution equation of fractional order*

ODEs, Dynamical Systems
Friday, September 21

Aula 3–224

Chairman: Nicolae Vulpe, Victor Orlov

11.40- Yaroslav Bihun, Roman Petryshyn, Inessa Krasnokutska
12.00 *Averaging Method in Multifrequency Systems with Delay and Nonlocal Conditions*

12.00- Rodica Luca Tudorache
12.20 *Positive Solutions for a System of Riemann-Liouville Fractional Differential Equations with Multi-Point Fractional Boundary Conditions*

12.20- Dana Constantinescu
12.40 *Applications of fast-slow differentiable dynamical systems in neuroscience and engineering*

12.40- Serban E. Vlad
13.00 *Boolean asynchronous systems: the concept of attractor*

ODEs, Dynamical Systems
Friday, September 21

Aula 3–224

Chairman: Iurie Călin, Dana Constantinescu

14.40- Cristina Bujac, Dana Schlomiuk, Nicolae Vulpe
15.00 *Configurations of invariant lines of total multiplicity 7 of cubic systems with four real distinct infinite singularities*

15.00- Joan C. Artes, Jaume Llibre, Dana Schlomiuk, Nicolae Vulpe
15.20 *Topological configurations of singularities for quadratic differential systems*

15.20- Vitalie Putuntica
15.40 *Canonical forms for cubic differential systems with affine real invariant straight lines of total parallel multiplicity six and configurations*

15.40- Pricop Victor
16.00 *The comitants of Lyapunov system with respect to the rotation group and applications*

16.00- Dumitru Cozma, Anatoli Dascalescu
16.20 *Center conditions for a cubic system with two invariant straight lines and one invariant cubic*

16.20- Vadim Repesco
16.40 *Qualitative study of cubic differential systems with invariant straight lines of total multiplicity seven along one direction*

ODEs, Dynamical Systems
Friday, September 21

Aula 3–224

Chairman: Dumitru Cozma, Yaroslav Bihun

-
- 17.00-17.20** **Natalia Neagu, Victor Orlov, Mihail Popa**
Invariant conditions of stability of unperturbed motion described by cubic differential system with quadratic part of Darboux type
-
- 17.20-17.40** **Iurie Calin, Victor Orlov**
A rational basis of $GL(2, \mathbb{R})$ -comitants for the bidimensional polynomial system of differential equations of the fifth degree
-
- 17.40-18.00** **Iurie Calin, Valeriu Baltag**
The sufficient center conditions for some classes of bidimensional cubic differential systems
-
- 18.00-18.20** **Iurie Calin, Stanislav Ciubotaru**
The sufficient center conditions for a class of bidimensional polynomial systems of differential equations with nonlinearities of the fourth degree
-
- 18.20-18.40** **Stanislav Ciubotaru, Iurie Calin**
Minimal polynomial basis of $GL(2, \mathbb{R})$ -comitants and of $GL(2, \mathbb{R})$ -invariants of the planar system of differential equations with nonlinearities of the fourth degree
-
- 18.40-19.00** **Paul Georgescu, Daniel Maxin, Hong Zhang**
Global stability results for models of commensalism
-

Mathematical Modelling
Saturday, September 22

Aula 3–118

Chairman: Valeriu Dulgeru, Irina Cojuhari

-
- 11.30-11.50 **Mircea Lupu, Cristian-George Constantinescu and Gheorghe Radu**
New theoretical and applicative mathematical methods in the study of the fluids with free surfaces movement
-
- 11.50-12.10 **Stelian Ion, Stefan-Gicu Cruceanu, Dorin Marinescu**
Modeling the plant effects on soil erosion by water
-
- 12.10-12.30 **Gabriel Dimitriu**
Computational issues regarding the parameter sensitivity in biological models
-
- 12.30-12.50 **Alin Pohoata, Daniel Dunea, Emil Lungu, Corneliu Salisteanu, Otilia Nedelcu**
Several solution for assessing Particulate Matter concentrations
-

Mathematical Modelling
Saturday, September 22

Aula 3–118

Chairman: Mircea Lupu, Gabriel Dimisianu

-
- 14.20-14.40 **Mihail Perebinos, Natalia Pasat**
Mathematical modelling of the screening of musical abilities and skills
-
- 14.40-15.00 **A. A. Ghendov-Mosanu, R. A. Sturza and T.D. Chereches**
Applying stochastic analysis of experimental data to optimize the bioactive compounds extraction from agro-food industry waste
-
- 15.00-15.20 **Veaceslav Zelentsov and Tatiana Datsko**
Modeling of the kinetics of fluorine sorption onto modified trepel
-
- 15.20-15.40 **Alexandra Băluță, Diana Rotaru, Mihaela Ilie, D. Fălie, Eugen Vasile**
Modeling the error ratio in digital optical communications
-
- 15.40-16.00 **Vladimir Patiuc**
Numerical method for determining potential coefficients matrix for multiconductor
-
- 16.00-16.20 **Elena Gutuleac, Grigore Secrieru**
Numerical analysis of the dynamic loading of elastic-plastic buried structures
-

Mathematical Modeling
Saturday, September 22

Aula 3–118

Chairman: Elena Gutuleac, Eugen Vasile

16.40- **Vladimir Melnic, Irina Cojuhari**
17.00 *Estimation of the mathematical model of the DC engine coupled with a reaction wheel*

17.00- **V. Bostan, M. Gutu and I. Rabei**
17.20 *Elaboration of calculation model for dynamic simulation of a vertical axis wind turbine rotor*

17.20- **I. Bostan, V. Dulgheru, M. Vaculenco**
17.40 *Elaboration of calculation model for precessional gearing*

17.40- **Vasile Patrascu**
18.00 *Entropy and F -divergence construction using the Einstein sum*

Real, Complex, Functional and Numerical Analysis
Friday, September 21

Aula 3-118

Chairman: Galina Rusu, Valeriu Gutu

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| 11.40-
12.00 | Călin Ioan Gheorghiu
<i>Spectral Collocation Solutions to Eigenproblems on Unbounded Domains</i> |
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| 12.00-
12.20 | Vladislav Seichiuc, Eleonora, Seiciuc, Gheorghe Caramorcan
<i>On modified computing schemes of the spline-collocation method for solving integral equations of the second kind</i> |
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| 12.20-
12.40 | Stelian Ion, Anca-Veronica Ion
<i>On the Global Existence of the Solutions of the Riemann Problem for Shallow Water Equations</i> |
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| 12.40-
13.00 | Tkacenko Alexandra
<i>The adapted algorithm of Jose A. Diaz for multi-criteria fractional transportation problem with "bottleneck" criterion</i> |
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Real, Complex, Functional and Numerical Analysis
Friday, September 21

Aula 3-118

Chairman: Anca-Veronica Ion, Vladislav Seichuc

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| 14.40-
15.00 | Tatiana Pasa
<i>Multi-index transportation problem with non-linear cost functions</i> |
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| 15.00-
15.20 | Petru Molosnic, Vasile Neagu
<i>On the generalized factorization of functions in weighted spaces</i> |
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| 15.20-
15.40 | Andrei Perjan, Galina Rusu
<i>Limits of the Solutions to the Initial-Boundary Dirichlet Problem for the Semilinear Klein-Gordon Equation with Two Small Parameters</i> |
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| 15.40-
16.00 | Cristina Stamate and Anca Croitoru
<i>The Aumann-Pettis-Sugeno integral for vector multifunctions relative to a vector fuzzy multi-measure</i> |
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| 16.00-
16.20 | Ana Costas
<i>Methods of solving linear recurrences</i> |
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| 16.20-
16.40 | Vasile Glavan, Valeriu Gutu
<i>Shadowing and Specification in weakly contracting relations</i> |
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Real, Complex, Functional and Numerical Analysis
Friday, September 21

Aula 3–118

Chairman: Stelian Ion, Tkacenko Alexandra

17.00- **Eugeniu Garla**
17.20 *Optimal Algorithm for Optimization Problems with Special Restriction*

17.20- **Dorin Pavel**
17.40 *Set-Valued Almost Periodic Functions and Perfect Mappings*

17.40- **Vasile Postolica**
18.00 *Spline for the set functions*

18.00- **Cecil P. Grunfeld**
18.20 *Positive Nonlinear Sem-Group Associated to a Class of Abstract Kinetic Models*

18.20- **Igor Chervko, Andrew Dorosh, Larissa Piddubna**
18.40 *Boundary Value Problem Solution Existence For Linear Integro-Differential Equations With Delays*

18.40- **Dmitriy Rudenko, Ruslan Skuratovskii**
19.00 *The Investigation of Euler Function Preimages*

Probability Theory, Mathematical Statistics & Operational Research
Saturday, September 22

Aula 3–202

Chairman: Gheorghita Zbaganu, Novac Ludmila

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- 11.30-11.50 **Vasile Dragan, I.-L. Popa, S. Aberkane**
On the Asymptotic Structure of the Stabilizing Solution of the Riccati Equation Arising in Connection with the Linear Quadratic Regulator Problem for a System Described by Itô Differential Equations with Two Fast Time Scales
-
- 11.50-12.10 **Irinel Dragan**
Egalitarian Allocations and the Inverse Problem for the Shapley Value
-
- 12.10-12.30 **Vlad Stefan Barbu, Guglielmo D'Amico, Riccardo De Blasis**
A Markov chain approach to stock model analysis and inference
-
- 12.30-12.50 **Alexei Leahu**
Some limits theorems for lifetime's distributions and their applications in Network's Reliability

Probability Theory, Mathematical Statistics & Operational Research
Saturday, September 22

Aula 3–202

Chairman: Vlad Stefan Barbu, Alexei Leahu

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- 14.20-14.40 **Monica Patriche**
Applications of the KKM property to coincidence theorems, equilibrium problems, minimax inequalities and variational relation problems
-
- 14.40-15.00 **Novac Ludmila**
Monte Carlo simulation for risk approach
-
- 15.00-15.20 **Gheorghita, Zbaganu**
The broken stick model. The optimality property of the uniform distribution.
-
- 15.20-15.40 **Irina Cojuhari, Ion Fiodorov, Bartolomeu Izvoreanu, Dumitru Moraru**
Synthesis of the minimum variance control law for the linear time variant processes
-
- 15.40-16.00 **Cataranciuc Emil, Hancu Boris**
Parallel algorithm to determine the solutions of the bimatrix informational extended games
-
- 16.00-16.20 **Hancu Boris**
Methods of solving perfect informational games
-

Probability Theory, Mathematical Statistics & Operational Research
Saturday, September 22

Aula 3–202

Chairman: Vlad Stefan Barbu, Alexei Leahu

16.40- Grigoriu Nicolae
17.00 *Kernels in Transitively Orientable Graphs*

Algebra, Logic, Geometry
Friday, September 21

Aula 3–208

Chairman: Elena Cebotaru, Alexandru Lungu

11.40- L. Chiriac, A. Danilov, N. Lupasco, N. Josu
12.00 *On non-isomorphic quasigroups of small order*

12.00- Laurentiu Calmutchi
12.20 *Hausdorff extensions*

12.20- Dumitru Botnaru, Olga Cerbu
12.40 *About Cartesian Product of Two Subcategories*

12.40- Dumitru Botnaru
13.00 *Sous-catégories \mathcal{L} -semi-reflexives*

Algebra, Logic, Geometry
Friday, September 21

Aula 3–208

Chairman: Syrbu, P., Libomir Chiriac

14.40- Elena Cebotaru
15.00 *Intervals of linear stability of geometrical parameters in the restricted eight bodies problem with incomplete symmetry*

15.00- Alexandru Lungu
15.20 *About the generalized symmetry of geometric figures weighted regularly and easily by "physical" scalar tasks*

15.20- Cristian Anghel
15.40 *Rota-Baxter operators and elliptic curves*

15.40- F. Damian, V.S. Makarov, P.V. Makarov
16.00 *Intermediate representation of hyperbolic manifolds by equidistant polyhedra*

16.00- Elizaveta Zamorzaeva
16.20 *On 3-isohedral tilings of sphere for group series $n \times$*

16.20- Banaru, Mihail
16.40 *On almost contact metric 2- and 3-hypersurfaces in W_4 -manifolds*

Algebra, Logic, Geometry
Friday, September 21

Aula 3–208

Chairman: Elizaveta Zamorzaeva, Florin Damian

17.00- **E. P. Cojuhari and B. J. Gardner**
17.20 *Subnormalizing Extensions and D-structures*

17.20- **Valeriu Popa**
17.40 *On topological endomorphism rings with no more than two non-trivial closed ideals*

17.40- **Mircea Cimpoeas**
18.00 *On the algebraic properties of the ring of Dirichlet convolutions*

18.00- **Syrbu P., Grecu I**
18.20 *On generalized multiplication groups of the commutative Moufang loops*

18.20- **Leonid Ursu**
18.40 *Definition and example of n -ary Moufang loop*

18.40- **Vasilii I. Onoi**
19.00 *Example of ternary non-commutative Moufang loop*

Algebra, Logic, Geometry
Saturday, September 22

Aula 3–208

Chairman: Mitrofan Choban, Serghei Vostov

11.30- Ion Negru
11.50 *On a Certain Property of the Elements of a Finitely Generated Lattice*

11.50- Ion Negru
12.10 *Some Properties of a Lattice Generated by Implicational Logics*

12.10- Ion Cucu
12.30 *On generalization of expressibility in 5-valued logic*

12.30- Andrei Rusu, Elena Rusu
12.50 *On weak expressibility of formulas in the simplest non-trivial propositional provability logic*

Algebra, Logic, Geometry
Saturday, September 22

Aula 3–208

Chairman: Andrei Rusu, Ion Negru

14.20- Demchenko, Oleg, Sergei Vostokov, R.P.Vostokova
14.40 *Application of formal groups to reciprocity laws*

14.40- On free nilpotent commutative automorphic loops
15.00 *On free nilpotent commutative automorphic loops*

15.00- Sergiu Cataranciuc, Galina Braguta
15.20 *Extreme Points in the Complex of Multy-ary Relations*

15.20- Ion Jardan
15.40 *Left coquotient with respect to join in the class of preradicals in modules*

15.40- Kuznetsov Eugene
16.00 *Some properties of a permutation representation of a group by cosets to its included subgroups*

16.00- Grigoriu Nicolae
16.20 *Kernels in Transitively Orientable Graphs*

Algebra, Logica, Geometry
Saturday, September 22

Aula 3–208

Chairman: Galina Braguta, Vasile Ursu

**16.40-
17.00** **Natalia Didurik**
Some properties of Neumann quasigroups

**17.00-
17.20** **Ruslan Skuratovskii**
The order of projective Edwards curve over F_p^n and embedding degree of this curve in finite field

**17.20-
17.40** **Ruslan Skuratovskii**
Minimal generating set and properties of commutator of Sylow subgroups of alternating and symmetric groups

Computer Sciences
Friday, September 21

Aula 3–202

Chairman: Caftanатов Olesea, Buzatu Radu

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|-----------------|---|
| 11.40-
12.00 | L. A. Dohotaru
<i>Application of Symbolic Calculations for Wick's Theorem</i> |
| 12.00-
12.20 | Vladimir Bondarenco, Andrei Rusu, Elena Rusu
<i>Genetic algorithm for optimization of software process</i> |
| 12.20-
12.40 | V. Ababii, V. Sudacevschi, V. Lazu, S. Munteanu and V. Ungureanu
<i>Distributed data processing method for extracting knowledge</i> |
| 12.40-
13.00 | Antohei Ionel
<i>Ways of resource virtualization for HPC Cloud Systems</i> |
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Computer Sciences
Friday, September 21

Aula 3–202

Chairman: V. Ababii, Elena Rusu

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| 14.40-
15.00 | Titchiev Inga
<i>Evaluation of the evacuation parameters from multi-storey buildings by Hierarchical Petri Nets</i> |
| 15.00-
15.20 | Bumbu Tudor, Caftanатов Olesea, Malahov Ludmila
<i>Revitalizing the folkloric text of RM from the second half of the 20th century and their diachronic analysis</i> |
| 15.20-
15.40 | Buzatu Radu
<i>Improvement of the administrative-territorial structure using mixed integer linear programming</i> |
| 15.40-
16.00 | Inga Lisnic, Sergiu Scrob
<i>Agent, Intelligent Agents, Definition, Classification and Utilization</i> |
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Educational
Friday, September 21

Aula 3–201

Chairman: Lilia Solovei, Liubov Zastinceanu

11.40-12.00 **Mircea Lupu, Olivia Florea**
Complex Mathematical Analysis Applied on Potential Theory and Dynamical Systems in Engineering Problems

12.00-12.20 **Marcel Teleucă, Larisa Sali**
The Design of Metacognitive Strategies for Training Abilities to Solve Combinatorics Problems

12.20-12.40 **Andrei Braicov, Larisa Sali, Maria Pavel**
Modelul de formare profesionala continuă asistată de calculator a profesorilor de matematică și informatică

12.40-13.00 **Andrei Braicov, Angela Globa**
Eficiențizarea procesului de studiu al structurilor de date prin abordarea

Educational
Friday, September 21

Aula 3–201

Chairman: Angela Globa, Ion Jordan

14.40-15.00 **Tatiana Veverița**
Elaborarea scenariilor pedagogice la matematică prin învățarea în bază de cercetare-investigare

15.00-15.20 **Lidia Popov**
Etapa de Pregătire a unui experiment pedagogic la unitatea de curs Tehnologii informaționale și comunicaționale

15.20-15.40 **Dulgheru Valeriu**
O Nouă paradigmă a ingineriei: Educația ȘTIM: Știință–Tehnologie–Inginerie–Matematică

15.40-16.00 **Radames Evdochimov**
Impactul utilizării platformei de e- învățare MOODLE în procesul de predare-învățare-evaluare la unitatea de curs Tehnologii informaționale

16.00-16.20 **Liubov Zastinceanu**
The beginning development of pedagogical skills of future teachers using the means of informational and communicational technologies

16.20-16.40 **Teodora Vascan**
Legături interdisciplinare Matematica-Informatica în interogarea bazelor de date: Calcul SQL

Educational
Friday, September 21

Aula 3–201

Chairman: Tatiana Veverița, Andrei Braicov

17.00- 17.20	Andrei Corlat, Ion Jardan <i>Utilizarea proprietăților modulului la rezolvarea inecuațiilor ce conțin simbolul lui</i>
17.20- 17.40	Iurie Baltag <i>Cu privire la unele probleme referitoare la dreapta și planul în spațiu</i>
17.40- 18.00	Lilia Solovei <i>Interactive Environment GeoGebra Application for Teaching Students the Fields of Mathematics</i>
18.00- 18.20	Boris Țarălungă, Tatiana Druc <i>Asupra unei ecuații Diofant</i>
18.20- 18.40	Viorica-Cornelia Hoffmann-Bronț <i>Elements of teaching mathematics</i>
18.40- 19.00	Viorica-Cornelia, Hoffmann-Bronț <i>Interpretarea geometrică a rezolvării unui sistem de două ecuații, una de gradul I cealaltă de gradul II</i>

Educational
Saturday, September 22

Aula 3–201

Chairman: Larisa Sali,

11.30- Cerbu Olga, Domentean Rita
11.50 *Despre asimptotele unor funcții*

11.50- Țurcanu Alina, Domentean Rita
12.10 *Rezolvarea ecuațiilor prin metoda iterativă*

12.10- Vitalie Țicău
12.30 *Implementarea algoritmilor de rezolvare a problemelor din combinatorică*

12.30- Marina Bostan
12.50 *Abordări didactice în predarea algoritmilor pentru determinarea arborelui parțial de cost minim*

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