



Joint International Meeting of the American Mathematical Society and the Romanian Mathematical Society

in partnership with the
Simion Stoilow Institute of Mathematics of the Romanian Academy

June 27 - 30, 2013, Alba Iulia, Romania

The meeting will be held at "1 Decembrie 1918" University of Alba Iulia

E-mail address: ams-ro2013@imar.ro

Web: <http://imar.ro/amsro2013/description.php>



Invited Addresses

Viorel Barbu (University of Iasi, Romania): *Stabilization of Navier-Stokes equations by boundary and point feedback controllers*

Sergiu Klainerman (Princeton University): *Are black holes real?*

George Lusztig (Massachusetts Institute of Technology): *On conjugacy classes in the Lie group E_8*

Stefan Papadima (Simion Stoilow Institute of Mathematics of the Romanian Academy): *Geometry of homology jump loci and topology*

Mihnea Popa (University of Illinois, Chicago): *Vanishing theorems and holomorphic one-forms*

Dan Timotin (Simion Stoilow Institute of Mathematics of the Romanian Academy): *Horn inequalities: finite and infinite dimensions*



Special Sessions

1. Algebraic Geometry

Organizers: Marian Aprodu, Mircea Mustata, Mihnea Popa

2. Articulated Systems: Combinatorics, Geometry and Kinematics

Organizers: Ciprian S. Borcea, Ileana Streinu

3. Calculus of Variations and Partial Differential Equations

Organizers: Marian Bocea, Liviu Ignat, Mihai Mihailescu, Daniel Onofrei

4. Commutative Algebra

Organizers: Florian Enescu, Cristodor Ionescu

5. Discrete Mathematics and Theoretical Computer Science

Organizers: Sebastian Cioaba, Gabriel Istrate, Ioan Tomescu, Marius Zimand

6. Domain Decomposition Methods and their Applications in Mechanics and Engineering

Organizers: Lori Badea, Marcus Sarkis

7. Harmonic Analysis and Applications

Organizers: Ciprian Demeter, Camil Muscalu



Special Sessions

8. Hopf Algebras, Coalgebras, and their Categories of Representation

Organizers: Miodrag C. Iovanov, Susan Montgomery, Siu-Hung Ng

9. Geometry and Topology of Arrangements of Hypersurfaces

Organizers: Daniel Matei, Alexandru I. Suciu

10. Local and Nonlocal Models in Wave Propagation and Diffusion

Organizers: Lorena Bociu, Anca V. Ion, Petronela Radu

11. Mathematical Finance, Stochastic Analysis, and Partial Differential Equations

Organizers: Lucian Beznea, Paul Feehan, Victor Nistor, Camelia Pop, Mihai Sirbu

12. Mathematical Models in Life and Environment

Organizers: Gabriela Marinoschi, Fabio Augusto Milner

13. Mathematical Models in Materials Science and Engineering

Organizers: Marian Bocea, Bogdan Vernescu

14. Noncommutative Ring Theory and Applications

Organizers: Toma Albu, Lance W. Small



Special Sessions

15. Nonlinear Evolution Equations

Organizers: Daniel Tataru, Monica Visan

16. Operator Algebra and Noncommutative Geometry

Organizers: Marius Dadarlat, Florin Radulescu

17. Operator Theory and Function Spaces

Organizers: Aurelian Gheondea, Mihai Putinar, Dan Timotin

18. Probability and its Relation to Other Fields of Mathematics

Organizers: Krzysztof Burdzy, Mihai N. Pascu

19. Random Matrices and Free Probability

Organizers: Ioana Dumitriu, Ionel Popescu

20. Several Complex Variables, Complex Geometry and Dynamics

Organizers: Dan Coman, Cezar Joita

21. Topics in Geometric and Algebraic Topology

Organizers: Stefan Papadima, Alexandru I. Suciu



Over 400 participants form the following 30 countries:

Argentina

Australia

Austria

Belgium

Brazil

Bulgaria

Canada

Croatia

Denmark

Finland

France

Germany

India

Ireland

Israel

Italy

Japan

Mexic

Norway

Poland

Rep. of Moldavia

Romania

South Korea

Spain

Sweden

Switzerland

Tunisia

Turkey

United Kingdom

USA

About 350 talks



The meeting is organized by

- The American Mathematical Society
- The Romanian Mathematical Society

in partnership with

- The Simion Stoilow Institute of Mathematics of the Romanian Academy
- **Host institution: “1 Decembrie 1918” University of Alba Iulia**

Program Committee

Marian Aprodu (*Bucharest*)
Lucian Beznea (*Bucharest*)
Ioana Dumitriu (*Washington*)
Radu Gologan (*Bucharest*)
Tudor Ratiu (*Lausanne*)
Daniel Tataru (*Berkeley*)
Yuri Tschinkel (*New York*)
Steven H. Weintraub (*Bethlehem*)

Organizing Committee

Lucian Beznea (*Bucharest*)
Daniel Breaz (*Alba Iulia*)
Radu Gologan (*Bucharest*)
Cezar Joita (*Bucharest*)
Radu Purice (*Bucharest*)
Bogdan Vernescu (*Worcester*)



Satellite Conference

- International Conference: **Experimental and Theoretical Methods in Algebra, Geometry and Topology**

Web: (<http://math.univ-ovidius.ro/Conference/ETMAGT60/GeneralInfo.htm>)

Mathematics Book Stands

- **European Mathematical Society Publishing House**
- **Springer Verlag (*to be confirmed*)**
- **Romanian Academy Publishing House**
- **Theta Foundation**



Social Events

- **Opening Reception, Thursday, June 27 (evening):** In the courtyard of [Medieval Hotel](#), located in the middle of the star-shaped historical fortress of Alba Iulia, in the neighbourhood of the Road of the Three Fortifications, one of the most important sightseeings of the city.

- **Excursion, Friday, June 28 (afternoon):** The excursion program includes a visit to [Turda Salt Mine](#). The cave is now a museum of salt mining in Transylvania. A classical music concert will be performed for the participants in the Amphitheatre of the mine, a place with a remarkable acoustics.

An alternative excursion program includes a visit to [Ramet Monastery](#), located in Trascau Mountains (Western Carpathians). The name originates from the Latin "eremita" (hermit). It was founded by two monks back in 1214, it is one of the oldest orthodox monastic establishments in Transylvania, and is famous for hand-made knit carpets.

- **Conference Dinner, Saturday, June 29.** The event will take place in the courtyard of [Jidvei Castle](#), Cetatea de Balta, close to Alba Iulia. The old castle, demolished in the 16-th century, was used as a royal residence by the viceroys of Transylvania. The present castle was rebuilt in the 17-th century by Count Bethlen and it is today a renowned symbol of [Jidvei](#), a famous vineyard in Transylvania, on Tarnava valley.