



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 1 Algebra and Computer Science

Thursday June 11, 2015 – Room M006

- 9:00-9:20 Enric Ventura [abstract # 1111-20-191](#)
Membership in the BNS invariant.
- 9:30-9:50 Pascal Weil [abstract # 1111-20-145](#)
Generic properties of randomly chosen subgroups of free groups and group presentations.
- 10:00-10:20 João Jorge Araújo [abstract # 1111-05-529](#)
New results on how to save prisoners from pirates and dinosaurs.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Maria João Gouveia [abstract # 1111-06-540](#)
Completions of ordered structures.
- 11:30-11:50 Chrystopher L. Nehaniv [abstract # 1111-20-478](#)
Holonomy decomposition and skeleton of finite transformation semigroups: improved proofs for computer implementations.

Friday June 12, 2015 – Room M006

- 9:00-9:20 Delaram Kahrobaei [abstract # 1111-00-197](#)
A family of polycyclic groups over which the uniform conjugacy problem is NP-complete.
- 9:30-9:50 Peter Mayr [abstract # 1111-08-563](#)
Computational problems for direct products of algebras.
- 10:00-10:20 Miguel Couceiro [abstract # 1111-06-53](#)
An Arrow-like theorem for aggregation procedures over median algebras.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Andrei Krokhin [abstract # 1111-08-401](#)
On constant-factor approximable Minimum Constraint Satisfaction Problems.
- 11:30-11:50 Jonathan Gryak [abstract # 1111-00-284](#)
Conjugacy problem in polycyclic and metabelian groups: algorithms and complexity.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M006

- | | | |
|-------------|--|--|
| 13:00-13:20 | Vladimir Shpilrain
<i>Navigating in the Cayley graph of $SL_2(F_p)$ and applications to hashing.</i> | abstract # 1111-20-74 |
| 13:30-13:50 | Laura I Ciobanu
<i>The language complexity of algebraic sets in free groups and monoids.</i> | abstract # 1111-20-182 |
| 14:00-14:20 | Susan Hermiller
<i>Conjugacy languages in groups.</i> | abstract # 1111-20-599 |
| 14:30-14:50 | Yago Antolin
<i>Conjugacy languages of hyperbolic groups.</i> | abstract # 1111-20-488 |
| 15:00-15:20 | Ariane Masuda
<i>Character theory of monoids over an arbitrary field.</i> | abstract # 1111-20-495 |

Rooms M_xyy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 2

Algebraic and Categorical Aspects of Hopf Algebras

Wednesday June 10, 2015 – Room M027

- 13:00-13:20 Hans-Jürgen Schneider [abstract # 1111-16-334](#)
The braided Hopf algebra structure of reflected Nichols algebras.
- 13:30-13:50 Mitja Mastnak [abstract # 1111-17-273](#)
Quantum Lie algebras and formal graded deformations of Nichols algebras.
- 14:00-14:20 Julien Bichon [abstract # 1111-16-57](#)
Cohomological dimensions of Hopf algebras.
- 14:30-14:50 Daniel Bulacu [abstract # 1111-16-424](#)
On Frobenius and separable algebra extensions in monoidal categories.
- 15:00-15:20 Marcelo Aguiar [abstract # 1111-18-502](#)
Monads on higher monoidal categories.

Friday June 12, 2015 – Room M027

- 9:00-9:20 Ivan Shestakov [abstract # 1111-17-487](#)
Non-associative Hopf algebras of formal diffeomorphisms.
- 9:30-9:50 Yinhuo Zhang [abstract # 1111-16-71](#)
Braided autoequivalences and quantum-commutative Galois objects.
- 10:00-10:20 Bachuki Mesabishvili [abstract # 1111-18-118](#)
On descent cohomology.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Alexei Davydov [abstract # 1111-16-524](#)
Twisted automorphisms and derivations of Hopf algebras.
- 11:30-11:50 Christoph Schweigert [abstract # 1111-17-39](#)
Invariants for mapping class group actions from ribbon Hopf algebra automorphisms.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M005

13:00-13:20	Earl Taft <i>Is there a left Hopf algebra containing quantum $U(\mathfrak{sl}(2))$?</i>	abstract # 1111-16-37
13:30-13:50	Gabriella Böhm <i>Weak multiplier bialgebras.</i>	abstract # 1111-16-11
14:00-14:20	Ramon Gonzalez <i>Weak Hopf quasigroups.</i>	abstract # 1111-18-14
14:30-14:50	Alexander Schenkel <i>Nonassociative geometry in quasi-Hopf representation categories.</i>	abstract # 1111-17-88
15:00-15:20	Tomasz Brzezinski <i>Noncommutative smoothing.</i>	abstract # 1111-16-16

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 3 Algebraic Combinatorics and Representation Theory

Wednesday June 10, 2015 – Room M027

- 9:00-9:20 Jim Haglund [abstract # 1111-05-580](#)
Interpretations for a four-parameter Catalan sequence.
- 9:30-9:50 Soichi Okada [abstract # 1111-05-143](#)
On the existence of generalized parking spaces for complex reflection groups.
- 10:00-10:20 Rui Duarte [abstract # 1111-05-810](#)
From parking functions to the regions of the Shi arrangement.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Ricardo Mamede [abstract # 1111-05-30](#)
Lexicographical combinatorial generation and Gray codes for noncrossing and nonnesting set partitions of classical type.
- 11:30-11:50 Michael Weiner [abstract # 1111-05-95](#)
Colored partitions of a convex polygon by non-crossing diagonals.

Thursday June 11, 2015 – Room M027

- 12:30-12:50 Cedric Lecouvey [abstract # 1111-05-185](#)
Quantisation of Littlewood-Richardson beyond type A.
- 13:00-13:20 Peter MacNamara [abstract # 1111-05-585](#)
Comparing skew Schur functions: a quasisymmetric perspective.
- 13:30-13:50 Sabine Beil [abstract # 1111-05-789](#)
Wieland drift for triangular fully packed loop configurations.
- 14:00-14:20 Meesue Yoo [abstract # 1111-05-262](#)
Schur coefficients of the integral form MacDonalld polynomials.
- 14:30-14:50 Deniz Kus [abstract # 1111-05-137](#)
Demazure characters and fusion products.
- 15:00-15:20 Aram Emami [abstract # 1111-05-263](#)
Growth diagrams and a Lascoux's non-symmetric Cauchy identity over near staircases.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M029

12:30-12:50	Rosa Orellana <i>Graphs with the same chromatic symmetric function.</i>	abstract # 1111-05-652
13:00-13:20	Ilse Fischer <i>Lozenge tilings of hexagons with arbitrary dents.</i>	abstract # 1111-05-244
13:30-13:50	Pedro Silva <i>The homotopy type of boolean representable simplicial complexes.</i>	abstract # 1111-55-595
14:00-14:20	Mercedes Rosas <i>Commutation and normal ordering for operators on symmetric functions.</i>	abstract # 1111-05-475
14:30-14:50	Greta Panova <i>Kronecker coefficients – combinatorics, complexity and beyond.</i>	abstract # 1111-05-430
15:00-15:20	Emmanuel Briand <i>Vertex operators and Kronecker coefficients.</i>	abstract # 1111-05-477

Rooms M_xyy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 4 Algebraic Theory of Semigroups and Applications

Wednesday June 10, 2015 – Room M007

- | | | |
|-------------|--|--|
| 12:30-12:50 | Benjamin Steinberg
<i>The representation theory of the full transformation monoid.</i> | abstract # 1111-20-499 |
| 13:00-13:20 | Gracinda M.S. Gomes
<i>Takahashi semigroups.</i> | abstract # 1111-20-489 |
| 13:30-13:50 | Itamar Stein
<i>The ordinary quiver of the algebra of the monoid of all partial functions on a set.</i> | abstract # 1111-20-134 |
| 14:00-14:20 | João Jorge Araújo
<i>Conjugation in semigroups.</i> | abstract # 1111-20-534 |
| 14:30-14:50 | Karl Auinger
<i>The Ribes-Zaleskii Theorem revisited.</i> | abstract # 1111-20-165 |
| 15:00-15:20 | John Rhodes
<i>A survey of finite join irreducible (ji) semigroups.</i> | abstract # 1111-20-213 |

Thursday June 11, 2015 – Room M007

- | | | |
|-------------|--|--|
| 12:30-12:50 | Jorge Almeida
<i>The finite basis and finite rank properties for pseudovarieties of semigroups.</i> | abstract # 1111-20-811 |
| 13:00-13:20 | M. Hossein Shahzamanian C.
<i>The pro-nilpotent group topology on a free group.</i> | abstract # 1111-20-730 |
| 13:30-13:50 | Alan J. Cain
<i>Crystal bases, finite convergent presentations, and automaticity for plactic monoids.</i> | abstract # 1111-20-353 |
| 14:00-14:20 | Laure Daviaud
<i>Classes of languages generated by the Kleene star of a word.</i> | abstract # 1111-68-546 |
| 14:30-14:50 | Ondřej Klíma
<i>Overview of new results on piecewise testable languages.</i> | abstract # 1111-20-512 |
| 15:00-15:20 | Marc Zeitoun
<i>A survey on separation problems.</i> | abstract # 1111-68-673 |

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room M007

- 9:00-9:20 Victoria Gould [abstract # 1111-20-422](#)
Free idempotent generated semigroups and the endomorphism monoid of a free G -act.
- 9:30-9:50 Robert D. Gray [abstract # 1111-20-586](#)
On regularity and the word problem for free idempotent generated semigroups. Part I.
- 10:00-10:20 Filipa Soares [abstract # 1111-20-528](#)
Howson's property for semidirect products of semilattices by groups.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Mark Kambites [abstract # 1111-20-259](#)
Anisimov's Theorem for inverse semigroups.
- 11:30-11:50 Wolfram Bentz [abstract # 1111-20-572](#)
Synchronizing automata, graphs, and transformation monoids.
- 12:00-12:20 Mikhail V. Volkov [abstract # 1111-20-671](#)
The finite basis problem for matrix semigroups.

Saturday June 13, 2015 – Room M007

- 12:30-12:50 Peter R. Jones [abstract # 1111-20-474](#)
Strict restriction semigroups and Tilson's "Categories as Algebra".
- 13:00-13:20 Nóra Szakács [abstract # 1111-20-268](#)
On the graph condition regarding the F -inverse cover problem.
- 13:30-13:50 Boris M. Vernikov [abstract # 1111-20-308](#)
Special elements of lattices of semigroup varieties.
- 14:00-14:20 Veny Liu [abstract # 1111-20-624](#)
Free inverse semigroupoids and their inverse subsemigroups.
- 14:30-14:50 Emanuele Rodaro [abstract # 1111-20-158](#)
Decidability vs undecidability in HNN-extensions of inverse semigroups.
- 15:00-15:20 Pedro V. Silva [abstract # 1111-20-457](#)
Complexity advances in equations over semigroups.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 5 Applications of Stochastic Differential Equations

Thursday June 11, 2015 – Room F-117

- | | | |
|-------------|---|--|
| 13:00-13:20 | Fabien Campillo
<i>Stochastic differential equations in population dynamics, between discrete and deterministic models.</i> | abstract # 1111-60-381 |
| 13:30-13:50 | Maud Delattre
<i>Population pharmacokinetics and stochastic differential equations: model and methods.</i> | abstract # 1111-62-239 |
| 14:00-14:20 | Helle Sorensen
<i>Stochastic differential equations with random effects.</i> | abstract # 1111-62-621 |
| 14:30-14:50 | Umberto Picchini
<i>Maximum likelihood estimation of state-space SDE models using data-cloning approximate Bayesian computation.</i> | abstract # 1111-62-298 |
| 15:00-15:20 | Carlos Braumann
<i>Can populations live forever?</i> | abstract # 1111-60-10 |

Friday June 12, 2015 – Room F-117

- | | | |
|-------------|--|--|
| 9:00-9:20 | Anders Christian Jensen
<i>TBA</i> | no abstract |
| 9:30-9:50 | Massimiliano Tamborrino
<i>Parameter inference from hitting times for perturbed stochastic processes: analytical method and applications.</i> | abstract # 1111-60-715 |
| 10:00-10:20 | Adeline Samson
<i>TBA</i> | no abstract |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | Manuel Esquivel
<i>On a price-liquidity threshold regime switching diffusion model.</i> | abstract # 1111-60-761 |
| 11:30-11:50 | Raquel M. Gaspar
<i>Interbank adjustments for FRAs.</i> | abstract # 1111-60-554 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1_yy are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M219

9:00-9:20	Mario di Paola <i>TBA</i>	no abstract
9:30-9:50	Joachim Peinke <i>Stochastic models for real-world processes.</i>	abstract # 1111-60-774
10:00-10:20	Antoine Lejay <i>Probabilistic representation of diffusions in media semi-permeable barrier.</i>	abstract # 1111-60-597
10:20-11:00	Coffee/Tea Break	
11:00-11:20	Charles Marchetti <i>An approximation of the solution of Kalman filter in a problem of stabilized platform with an inertial measurement unit.</i>	abstract # 1111-60-764
11:30-11:50	Paula Milheiro-Oliveira <i>Change-point testing of a 2-regime and 2-dimension Ornstein-Uhlenbeck process modelling the dynamics of an engineering structure.</i>	abstract # 1111-60-736

Rooms M_xyy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 6 Applied Algebraic Topology

Thursday June 11, 2015 – Room F-116

- | | | |
|-------------|--|--|
| 13:00-13:50 | Massimo Ferri
<i>Biomedical applications of persistent Homology.</i> | abstract # 1111-55-221 |
| 14:00-14:50 | Matthew Kahle
<i>The length of the longest bar in random persistent homology.</i> | abstract # 1111-55-248 |
| 15:00-15:20 | Armando Costa
<i>Topology of random simplicial complexes.</i> | abstract # 1111-55-531 |

Friday June 12, 2015 – Room F-116

- | | | |
|-------------|---|--|
| 9:00-9:50 | Martin Raussen
<i>Combinatorial and topological models for spaces of schedules.</i> | abstract # 1111-55-48 |
| 10:00-10:20 | Ana Romero
<i>Zigzag persistence: application to processing stacks of neuronal images.</i> | abstract # 1111-55-335 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:50 | Jose Manuel Garcia-Calines
<i>On some approaches of topological complexity.</i> | abstract # 1111-55-614 |

Saturday June 13, 2015 – Room F-116

- | | | |
|-------------|---|--|
| 9:00-9:50 | Graham Ellis
<i>Computing with homotopy 2-types.</i> | abstract # 1111-55-338 |
| 10:00-10:20 | Jose Gabriel Carrasquel-Vera
<i>On rational topological complexity and related invariants.</i> | abstract # 1111-55-550 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:50 | Sanjeevi Krishnan
<i>Dynamic sensor networks.</i> | abstract # 1111-55-606 |

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 7 Categorical Methods in Algebra and Topology

Friday June 12, 2015 – Room M107

- | | | |
|-------------|--|--|
| 13:00-13:20 | Tim Van der Linden
<i>When is a double central extension universal?</i> | abstract # 1111-18-219 |
| 13:30-13:50 | Nelson Martins-Ferreira
<i>On abstract systems of neighbourhoods and a relational approach to the theory of topological groups.</i> | abstract # 1111-06-693 |
| 14:00-14:20 | Qimh Xantcha
<i>The combinatorics of polynomial functors.</i> | abstract # 1111-16-796 |
| 14:30-14:50 | Javier Gutiérrez-García
<i>Around the frame of reals: extended and partial reals and the unit circle in Pointfree Topology.</i> | abstract # 1111-06-568 |
| 15:00-15:20 | Jorge Picado
<i>Order completions of pointfree function rings as function rings.</i> | abstract # 1111-06-707 |

Saturday June 13, 2015 – Room M107

- | | | |
|-------------|--|--|
| 9:30-9:50 | José Nuno Oliveira
<i>Why category theory matters: a functional programmer's perspective.</i> | abstract # 1111-68-778 |
| 10:00-10:20 | Marino Gran
<i>Star-regularity and regular completions.</i> | abstract # 1111-18-612 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | Luke Wolcott
<i>Bousfield lattice invariants of triangulated symmetric monoidal categories.</i> | abstract # 1111-18-782 |
| 11:30-11:50 | Isar Stubbe
<i>Partial metric spaces as enriched categories.</i> | abstract # 1111-18-680 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M107

- | | | |
|-------------|---|--|
| 13:30-13:50 | Lurdes Sousa
<i>On injectivity of locales and spaces.</i> | abstract # 1111-18-556 |
| 14:00-14:20 | Karen Van Opdenbosch
<i>Approach spaces, functional ideal convergence and Kleisli monoids.</i> | abstract # 1111-54-360 |
| 14:30-14:50 | Gavin Seal
<i>An adjunction between lax extensions and presheaf monads.</i> | abstract # 1111-18-682 |
| 15:00-15:20 | Walter Tholen
<i>Lax-algebraic structures without the unit law.</i> | abstract # 1111-18-428 |

Rooms M_xyy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 8 Categorification of Quantum groups, Representations and Knot Invariants

Wednesday June 10, 2015 – Room M003

- 9:00-9:20 You Qi [abstract # 1111-16-313](#)
A new year resolution.
- 9:30-9:50 Joshua Sussan [abstract # 1111-16-648](#)
Categorical Heisenberg and related structures.
- 10:00-10:20 Radmila Sazdanovic [abstract # 1111-18-365](#)
Bernstein-Gelfand-Gelfand reciprocity property in categorification of orthogonal polynomials.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Anna Beliakova [abstract # 1111-22-140](#)
Trace of the categorified quantum groups.

Thursday June 11, 2015 – Room M003

- 13:00-13:20 Thomas Gobet [abstract # 1111-16-448](#)
On analogues of Soergel bimodules for the Temperley-Lieb algebra.
- 13:30-13:50 Daniel Tubbenhauer [abstract # 1111-16-127](#)
 $U_q(\mathfrak{sl}_2)$ diagram categories via q -symmetric Howe duality.
- 14:00-14:20 Louis-Hadrien Robert [abstract # 1111-55-342](#)
The colored \mathfrak{sl}_3 -homology.
- 14:30-14:50 Benjamin Cooper [abstract # 1111-18-234](#)
Categorification from localization construction.
- 15:00-15:20 Krzysztof Putyra [abstract # 1111-18-521](#)
Homological operations coming from odd Khovanov homology.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room M003

- 9:00-9:20 Hoel Queffelec [abstract # 1111-17-207](#)
Homfly-Pt and Alexander polynomials from a doubled Schur algebra.
- 9:30-9:50 Antonio Sartori [abstract # 1111-81-166](#)
Mixed super skew Howe duality.
- 10:00-10:20 Michael Ehrig [abstract # 1111-16-798](#)
Categorification of quantum symmetric pairs.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Catharina Stroppel [abstract # 1111-16-657](#)
Gradings on centralizer algebras and categorification.

Saturday June 13, 2015 – Room M003

- 9:00-9:20 Lukas Lewark [abstract # 1111-57-634](#)
New quantum obstructions to sliceness.
- 9:30-9:50 Andrew Lobb [abstract # 1111-57-547](#)
Homotopy types and quantum knot cohomologies.
- 10:00-10:20 Raphael Zentner [abstract # 1111-57-593](#)
A class of knots with simple $SU(2)$ -representations.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Christian Blanchet [abstract # 1111-57-415](#)
Non semisimple TQFTs from nilpotent representations of quantum $sl(2)$.

Rooms M x yy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q0yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 9 Clifford Analysis, Dirac Operators, and Operator Theory

Wednesday June 10, 2015 – Room Q007

- 9:00-9:20 Irene Sabadini [abstract # 1111-30-691](#)
On some approximation properties for slice regular functions of a quaternionic variable.
- 9:30-9:50 Dixan Peña-Peña [abstract # 1111-30-794](#)
Biaxial monogenic functions from Funk-Hecke's formula combined with Fueter's theorem.
- 10:00-10:20 Frank Sommen [abstract # 1111-30-139](#)
On the Szegő-Radon projection of monogenic functions.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Pan Lian [abstract # 1111-42-237](#)
A new construction of the Clifford-Fourier kernel.
- 11:30-11:50 Lander Cnudde [abstract # 1111-30-132](#)
Slice Fourier transform: definition, properties and corresponding convolutions.

Friday June 12, 2015 – Room Q007

- 9:00-9:20 Jan Slovak [abstract # 1111-58-440](#)
Subriemannian metrics and some parabolic geometries.
- 9:30-9:50 Vladimir Soucek [abstract # 1111-35-306](#)
Basic equations of quaternionic Clifford analysis.
- 10:00-10:20 Roman Lavicka [abstract # 1111-35-327](#)
Fischer decomposition and Howe duality in quaternionic Clifford analysis.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Daniel Alpay [abstract # 1111-46-130](#)
On algebras which are inductive limits of Banach spaces.
- 11:30-11:50 Uwe Kaehler [abstract # 1111-44-616](#)
Discrete function theory and Hardy spaces.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room Q023

- | | | |
|-------------|--|--|
| 9:00-9:20 | Matvei Livine
<i>Anti de Sitter deformation of quaternionic analysis.</i> | abstract # 1111-30-359 |
| 9:30-9:50 | Milton Ferreira
<i>Aspects of harmonic analysis over some gyrogroups.</i> | abstract # 1111-43-615 |
| 10:00-10:20 | Chao Ding
<i>Alternative proofs of some properties of the Rarita-Schwinger operator and the fundamental solution of the higher spin Laplace operator.</i> | abstract # 1111-32-392 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | Swanhild Bernstein
<i>Fractional Hilbert transforms and fractional monogenic signals.</i> | abstract # 1111-30-444 |
| 11:30-11:50 | Roger Nakad
<i>Complex differential forms and the $Spin^c$ Dirac spectrum.</i> | abstract # 1111-53-20 |

Rooms Mxyy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q0yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 10

Cluster Evolution Equations: Coagulation, Fragmentation, and Related Systems

Wednesday June 10, 2015 – Room Q010

- 14:00-14:20 Henry van Roessel [abstract # 1111-35-500](#)
Coagulation equations with nonhomogeneous kernels.
- 14:30-14:50 José Cañizo [abstract # 1111-82-73](#)
Cercignani's conjecture for the Boltzmann equation and analogs for the Becker-Döring system.
- 15:00-15:20 Ryan W. Murray [abstract # 1111-35-437](#)
Algebraic convergence rates for the Becker-Doering equations.

Thursday June 11, 2015 – Room Q010

- 9:00-9:20 Marco A. Fontelos [abstract # 1111-35-144](#)
Selfsimilar solutions for coagulation and fragmentation processes.
- 9:30-9:50 Sebastian Throm [abstract # 1111-35-417](#)
Self-similar solutions with fat tails for Smoluchowski's coagulation equation with singular kernels.
- 10:00-10:20 Rafael Sasportes [abstract # 1111-34-542](#)
Self-similar behaviour in an island growth model with constant monomer input.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Robert L. Pego [abstract # 1111-35-178](#)
An analysis of merging-splitting group dynamics by Bernstein function theory.
- 11:30-11:50 Michael Helmers [abstract # 1111-82-635](#)
A simple model for coarsening in infinite particle systems.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room Q010

- 9:00-9:20 Ankik Kumar Giri [abstract # 1111-35-756](#)
Existence and uniqueness of weak solutions to the general nonlinear fragmentation equation.
- 9:30-9:50 Wilson Lamb [abstract # 1111-47-506](#)
Semigroups of operators and the discrete coagulation-fragmentation equation.
- 10:00-10:20 Jacek Banasiak [abstract # 1111-35-466](#)
Analyticity of fragmentation semigroups with applications.
- 10:20-11:00 **Coffee/Tea Break**

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q0_yy are located in the Chemistry Department on the ground floor; rooms F-1_yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 11 Combinatorics and Geometry of Quantum Algebras

Thursday June 11, 2015 – Room M007

- | | | |
|-------------|--|--|
| 9:00-9:20 | Tom Lenagan
<i>Torus invariant primes in the quantum grassmannian.</i> | abstract # 1111-16-150 |
| 9:30-9:50 | Jan E. Grabowski
<i>Recovering automorphisms of quantum spaces.</i> | abstract # 1111-17-272 |
| 10:00-10:20 | Rita Fiorese
<i>Quantum homogeneous varieties and supervarieties.</i> | abstract # 1111-03-252 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | Karel Casteels
<i>Path models for quantum algebras.</i> | abstract # 1111-16-525 |
| 11:30-11:50 | Secil Ceken
<i>Discriminant criterion and automorphism groups of some quantized algebras.</i> | abstract # 1111-16-153 |

Friday June 12, 2015 – Room M006

- | | | |
|-------------|---|--|
| 13:00-13:20 | Arkady Berenstein
<i>Integrable clusters.</i> | abstract # 1111-16-255 |
| 13:30-13:50 | Raf Bocklandt
<i>Stability, clusters and tropicalization.</i> | abstract # 1111-16-508 |
| 14:00-14:20 | Jeanne S. Scott
<i>The Grassmannian's BFZ-twist automorphism.</i> | abstract # 1111-05-571 |
| 14:30-14:50 | David A. Jordan
<i>Quantum cluster algebras for mutation-periodic quivers.</i> | abstract # 1111-16-296 |
| 15:00-15:20 | Milen T. Yakimov
<i>Prime factors of quantum Schubert cell algebras and clusters for quantum Richardson varieties.</i> | abstract # 1111-22-655 |

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M108

- 9:00-9:20 Jason P. Bell [abstract # 1111-16-148](#)
Poisson algebras and the Poisson Dixmier-Moeglin equivalence.
- 9:30-9:50 Cesar Lecoutre [abstract # 1111-16-557](#)
Poisson deleting derivations algorithm: Poisson birational equivalence and Poisson spectrum.
- 10:00-10:20 Sian Fryer [abstract # 1111-16-364](#)
On prime ideals in quantum matrices and Poisson-primes in the semi-classical limit.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Matyas Domkos [abstract # 1111-16-472](#)
On the FRT bialgebra of orthogonal type.
- 11:30-11:50 Ken Brown [abstract # 1111-16-203](#)
Connected Hopf algebras of finite Gelfand-Kirillov dimension.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 12 Commutative Artinian Algebras and Their Deformations

Wednesday June 10, 2015 – Room M030

- | | | |
|-------------|---|--|
| 9:00-9:20 | Aldo Conca
<i>Absolutely Koszul algebras.</i> | abstract # 1111-13-172 |
| 9:30-10:20 | Julia Pevtsova
<i>Support varieties, local Jordan type, and applications.</i> | abstract # 1111-16-86 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | Ela Celikbas
<i>Decomposing Gorenstein Rings as Connected Sums - I.</i> | abstract # 1111-13-326 |
| 11:30-11:50 | Ananthanarayan Hariharan
<i>Decomposing Gorenstein Rings as Connected Sums - II.</i> | abstract # 1111-13-375 |

Thursday June 11, 2015 – Room M029

- | | | |
|-------------|---|--|
| 13:00-13:20 | Mats Boij
<i>The non-Lefschetz locus of artinian complete intersections.</i> | abstract # 1111-13-291 |
| 13:30-13:50 | Ines B. Henriques
<i>Quasi-complete intersection ideals.</i> | abstract # 1111-13-349 |
| 14:00-14:20 | Gianfranco Casnati
<i>A quick overview on c-stretched algebras.</i> | abstract # 1111-13-175 |
| 14:30-14:50 | Joachim Jelisiejew
<i>Deformations and smoothability of Artin Gorenstein algebras.</i> | abstract # 1111-13-108 |
| 15:00-15:20 | Roberto Notari
<i>Obstructed local Artin Gorenstein algebras.</i> | abstract # 1111-13-333 |

Rooms M_{xxy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M029

- 9:00-9:20 Juan Elias [abstract # 1111-13-167](#)
How far is an Artin ring to be Gorenstein.
- 9:30-9:50 Lars Winther Christensen [abstract # 1111-13-173](#)
Intersections and sums of Gorenstein ideals.
- 10:00-10:20 Oana Veliche [abstract # 1111-13-168](#)
Intersections and sums of Gorenstein ideals with special attention to codepth 3.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Maria Vaz Pinto [abstract # 1111-13-164](#)
Regularity of vanishing ideals associated to certain families of graphs.
- 11:30-11:50 Alessandra Bernardi [abstract # 1111-14-257](#)
On the cactus variety of cubic forms.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 13 Commutative Monoids

Wednesday June 10, 2015 – Room M122

- | | | |
|-------------|---|--|
| 13:00-13:20 | Valentina Barucci
<i>On symmetric oversemigroups of a numerical semigroup.</i> | abstract # 1111-13-183 |
| 13:30-13:50 | Marco D'Anna
<i>Classes of complete intersection numerical semigroups.</i> | abstract # 1111-13-267 |
| 14:00-14:20 | Veronica Crispin Quiñonez
<i>The Ratliff-Rush operation on monomial ideals in three variables.</i> | abstract # 1111-13-300 |
| 14:30-14:50 | Shalom Eliahou
<i>Some progress towards Wilf's conjecture.</i> | abstract # 1111-13-41 |
| 15:00-15:20 | Aureliano M. Robles-Pérez
<i>On the pseudo-Frobenius numbers of numerical semigroups.</i> | abstract # 1111-05-706 |

Thursday June 11, 2015 – Room M122

- | | | |
|-------------|---|--|
| 9:00-9:20 | Julio-José Moyano-Fernández
<i>Duality and syzygies for semimodules over numerical semigroups.</i> | abstract # 1111-13-827 |
| 9:30-9:50 | Bogdan Ichim
<i>How to compute the Stanley depth of a module.</i> | abstract # 1111-05-676 |
| 10:00-10:20 | J. I. García-García
<i>Affine convex body semigroups of \mathbb{N}^3.</i> | abstract # 1111-20-710 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:50 | Winfried Bruns
<i>Recent developments in Normaliz.</i> | abstract # 1111-20-114 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M122

- | | | |
|-------------|--|--|
| 9:00-9:20 | Alfred Geroldinger
<i>Sets of lengths in Krull monoids.</i> | abstract # 1111-20-552 |
| 9:30-9:50 | Christopher O’Neill
<i>Computing delta sets and omega-primality in numerical monoids.</i> | abstract # 1111-13-55 |
| 10:00-10:20 | Santiago Zarzuela
<i>Shifted numerical semigroups and their tangent cones.</i> | abstract # 1111-13-231 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:50 | Manuel Delgado
<i>numericalsgps GAP package (tutorial).</i> | abstract # 1111-13-830 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 14 Complex Dynamics and Foliations

Wednesday June 10, 2015 – Room F-120

- | | | |
|-------------|---|--|
| 13:00-13:50 | Yulij Il'yashenko
<i>New Phragmen-Lindelof theorems for functional cochains.</i> | abstract # 1111-34-644 |
| 14:00-14:50 | Emmanuel Paul
<i>Dynamics on wild character varieties.</i> | abstract # 1111-34-643 |
| 15:00-15:20 | Helena Reis
<i>2-dimensional Lie algebras and separatrices for vector fields on $(\mathbb{C}^3, 0)$, I.</i> | abstract # 1111-37-355 |

Thursday June 11, 2015 – Room F-120

- | | | |
|-------------|---|--|
| 9:00-9:20 | Julio Rebelo
<i>2-dimensional Lie algebras and separatrices for vector fields on $(\mathbb{C}^3, 0)$, II.</i> | abstract # 1111-37-358 |
| 9:30-10:20 | Felipe Cano Torres
<i>Local Brunella's conjecture.</i> | no abstract |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:50 | Sorin Mihail Dumitrescu
<i>Holomorphic geometric structures on parallelizable manifolds.</i> | abstract # 1111-53-124 |

Rooms Mx_{yy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q0_{yy} are located in the Chemistry Department on the ground floor; rooms F-1_{yy} are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room F-120

- 13:00-13:50 Nessim Sibony [abstract # 1111-37-99](#)
Analysis on laminations by Riemann Surfaces.
- 14:00-14:50 Nataliya Goncharuk [abstract # 1111-30-276](#)
Genera of non-algebraic leaves of polynomial foliations of $\mathbb{C}P^2$.
- 15:00-15:20 Jasmin Raissy [abstract # 1111-37-357](#)
Wandering Fatou components in dimension two.

Saturday June 13, 2015 – Room Q019

- 9:00-9:20 Jasmin Raissy [abstract # 1111-37-357](#)
Wandering Fatou components in dimension two.
- 9:30-10:20 Alexey Glutsyuk [abstract # 1111-37-336](#)
On periodic orbits in complex billiards and tangential correspondence.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Roland Roeder [abstract # 1111-37-402](#)
Rational maps of the projective plane with equal dynamical degrees and no invariant foliation.

Rooms M_xyy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q0yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 15 Complex Time in Quantum Physics and Geometry

Wednesday June 10, 2015 – Room F-116

- 13:00-13:50 Carl M. Bender [abstract # 1111-30-111](#)
Nonlinear eigenvalue problems and PT symmetry.
- 14:00-14:50 Thomas Thiemann [abstract # 1111-81-780](#)
Complexifier coherent states in loop quantum gravity.

Thursday June 11, 2015 – Room F-116

- 9:00-9:50 Róbert Szöke [abstract # 1111-53-514](#)
Adapted complex structures and geometric quantization.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Eva-Maria Graefe [abstract # 1111-81-613](#)
The semiclassical limit of complexified quantum dynamics.

Friday June 12, 2015 – Room F-117

- 13:00-13:50 Brian Hall [no abstract](#)
Magnetic complex structures and quantization.
- 14:00-14:50 Daniel Burns [abstract # 1111-58-820](#)
The exponential map of the complexification of Ham in the real-analytic case.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1_yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 16 Contact and Symplectic Topology

Thursday June 11, 2015 – Room M030

- 13:00-13:50 V. Ginzburg [abstract # 1111-53-429](#)
Periodic orbits of Hamiltonian systems: conjectures and recent results.
- 14:00-14:20 M. Batoreo [abstract # 1111-53-433](#)
Periodic points of symplectomorphisms.
- 14:30-14:50 M. Pabiniak [abstract # 1111-53-411](#)
On displaceability of pre-Lagrangians in toric contact manifolds.
- 15:00-15:20 S. Anjos [abstract # 1111-22-265](#)
Seidel's morphism of toric 4-manifolds.

Friday June 12, 2015 – Room M030

- 9:00-9:50 L. Macarini [abstract # 1111-37-661](#)
Reeb flows with positive topological entropy and contact surgery.
- 10:00-10:20 G. Rizell [abstract # 1111-53-460](#)
The classification of monotone Lagrangian tori in 4-dimensional symplectic vector space.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 E. Miranda [abstract # 1111-53-113](#)
The geometry and topology of b-symplectic manifolds.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room M030

- 13:00-13:50 A. Oancea [abstract # 1111-53-723](#)
Symplectic and contact differential graded algebras.
- 14:00-14:20 L. Diogo [abstract # 1111-53-667](#)
Symplectic homology via GW theory.
- 14:30-15:20 R. Hind [abstract # 1111-53-727](#)
Symplectic embeddings of products.

Saturday June 13, 2015 – Room M030

- 13:00-13:20 Y. H. Cho [abstract # 1111-51-483](#)
Unimodality of Betti numbers for Hamiltonian circle actions with isolated fixed points.
- 13:30-13:50 R. Casals [abstract # 1111-53-619](#)
Geometric criteria for overtwistedness.
- 14:00-14:20 S. Sandon [abstract # 1111-53-449](#)
Translated points of contactomorphisms.
- 14:30-15:20 H. Geiges [abstract # 1111-53-125](#)
Cobordisms between symplectic fibrations.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 17 Convolution Type Operators

Thursday June 11, 2015 – Room Q007

- 13:00-13:20 Bernd Silbermann [abstract # 1111-47-266](#)
Banach algebras of matrix sequences: approximation numbers.
- 13:30-13:50 Helena Mascarenhas [abstract # 1111-46-654](#)
Quasi-banded operators and approximations of convolutions with almost periodic or quasi-continuous symbol.
- 14:00-14:20 Markus Seidel [abstract # 1111-47-425](#)
Essential pseudospectra and essential norms of band-dominated operators.
- 14:30-14:50 Claudio Fernandes [abstract # 1111-47-647](#)
Wiener-Hopf factorization in decomposing complete metric algebras.
- 15:00-15:20 Yuri Karlovich [abstract # 1111-47-496](#)
A C^ -algebra of nonlocal convolution type operators.*

Friday June 12, 2015 – Room Q023

- 9:00-9:20 Luis Castro [abstract # 1111-47-235](#)
The use of weighted Mellin pseudo-differential operators in BVPs for the Helmholtz equation.
- 9:30-9:50 Vladimir Rabinovich [abstract # 1111-45-169](#)
Boundary integral equations of diffraction problems on non-compact obstacles.
- 10:00-10:20 Frank-Olme Speck [abstract # 1111-47-271](#)
Convolution type operators with symmetry.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Eugene Shargorodsky [abstract # 1111-45-485](#)
On a Wiener-Hopf plus Mellin operator arising in the theory of Levy processes.
- 11:30-11:50 Pedro Santos [abstract # 1111-46-649](#)
Some notes on the singular integral operator acting on super Lebesgue spaces.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room Q007

- 13:00-13:20 Jani Virtanen [abstract # 1111-47-666](#)
Spectral theory of Toeplitz operators on Hardy spaces and Riemann-Hilbert problems.
- 13:30-13:50 Amarino Lebre [abstract # 1111-47-708](#)
Factorization of matrix functions related to singular integral operators with a Carleman shift on the unit circle.
- 14:00-14:20 Estelle Basor [abstract # 1111-47-785](#)
Determinant computations in the block Toeplitz case.
- 14:30-14:50 Victor Didenko [abstract # 1111-47-288](#)
An efficient method for solving non-homogeneous Toeplitz plus Hankel equations.

Rooms M_xyy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q0yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM

american
mathematical
society

europaean
mathematical
society

sociedade
portuguesa de
matemática



Special Session 18 Coupled Cell Dynamics

Wednesday June 10, 2015 – Room F-117

- 13:00-13:50 Marty Golubitsky [abstract # 1111-34-575](#)
Homeostasis as a network invariant.
- 14:00-14:50 Bob Rink [abstract # 1111-37-256](#)
Are networks governed by hidden symmetry?
- 15:00-15:20 Ana Dias [abstract # 1111-37-561](#)
An overview of synchrony in coupled cell networks.

Thursday June 11, 2015 – Room Q010

- 13:00-13:50 Mike Field [abstract # 1111-37-735](#)
The factorization of dynamics theorem for asynchronous networks.
- 14:00-14:50 Chris Bick [abstract # 1111-37-738](#)
Dynamics of phase oscillators with generalized coupling.
- 15:00-15:20 Nikita Agarwal [abstract # 1111-37-569](#)
Networks with dynamic topology.

Saturday June 13, 2015 – Room Q010

- 9:00-9:50 Tiago Pereira [abstract # 1111-34-697](#)
Improving the network structure can lead to functional failures.
- 10:00-10:20 Haibo Ruan [abstract # 1111-34-713](#)
Symmetry analysis of coupled scalar systems under time delay.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Célia Moreira [abstract # 1111-37-187](#)
Special Jordan subspaces and synchrony in coupled cell networks.
- 11:30-11:50 Anna Cherubini [no abstract](#)
A percolation study for desertification transitions.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q0_yy are located in the Chemistry Department on the ground floor; rooms F-1_yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 19 Dynamics and Games

Wednesday June 10, 2015 – Room M006

- | | | |
|-------------|---|--|
| 13:00-13:20 | Alberto Adrego Pinto
<i>Uncertainty costs on an international duopoly with tariffs.</i> | abstract # 1111-91-223 |
| 13:30-13:50 | Bruno M. P. M. Oliveira
<i>Equilibria in a model of immune responses by T cells.</i> | abstract # 1111-37-817 |
| 14:00-14:20 | João P. Almeida
<i>Anosov diffeomorphisms and tilings.</i> | abstract # 1111-37-703 |
| 14:30-14:50 | Carlos Correia Ramos
<i>Nonlinearity, control and decision.</i> | abstract # 1111-37-479 |
| 15:00-15:20 | Alberto Álvarez-López
<i>Decision analysis under uncertainty in a model of sports economics.</i> | abstract # 1111-91-618 |

Thursday June 11, 2015 – Room Q023

- | | | |
|-------------|--|--|
| 9:00-9:20 | Jorge Soares
<i>Price dynamics in Hotelling model.</i> | abstract # 1111-91-243 |
| 9:30-9:50 | José Martins
<i>An economical model for international expansion with and without make dumping.</i> | abstract # 1111-91-484 |
| 10:00-10:20 | Renato Soeiro
<i>Pure Nash equilibria in human decisions.</i> | no abstract |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | Filipe Martins
<i>A Bifurcation Theorem for evolutionary matrix models with multiple evolutionary traits.</i> | abstract # 1111-92-208 |
| 11:30-11:50 | Elvio Accinelli
<i>Imitation game: a model of endogenous technological jumps.</i> | abstract # 1111-91-193 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 20 Enumerative and Combinatorial Methods in Moduli Theory

Thursday June 11, 2015 – Room M108

- | | | |
|-------------|---|--|
| 9:00-9:50 | Dan Petersen
<i>Counterexamples to the Faber conjectures I.</i> | abstract # 1111-14-522 |
| 10:00-10:20 | Nicola Tarasca
<i>Pointed Castelnuovo numbers.</i> | abstract # 1111-14-470 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | Felix Janda
<i>Pixton's formula for the double ramification cycle.</i> | abstract # 1111-14-275 |
| 11:30-11:50 | Bashar Dudin
<i>Closure of the Hurwitz scheme in the space of stable maps.</i> | abstract # 1111-14-418 |

Friday June 12, 2015 – Room M108

- | | | |
|-------------|--|--|
| 13:00-13:50 | Erwan Brugallé
<i>Enumeration of complex, real and tropical curves in surfaces I.</i> | abstract # 1111-51-131 |
| 14:00-14:20 | Johannes Rau
<i>Constructing real algebraic curves using tropical geometry.</i> | abstract # 1111-14-779 |
| 14:30-14:50 | Nathan Pflueger
<i>Tableaux in Brill-Noether theory.</i> | abstract # 1111-14-625 |
| 15:00-15:20 | Yoav Len
<i>Tropical vector bundles.</i> | abstract # 1111-14-67 |

Rooms M xy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q $0yy$ are located in the Chemistry Department on the ground floor; rooms F- $1yy$ are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M108

- | | | |
|-------------|---|--|
| 13:00-13:50 | Dan Petersen
<i>Counterexamples to the Faber conjectures II.</i> | abstract # 1111-14-522 |
| 14:00-14:20 | Gilberto Bini
<i>From Calabi-Yau Manifolds to Surfaces of General Type.</i> | abstract # 1111-14-152 |
| 14:30-15:20 | Erwan Brugallé
<i>Enumeration of complex, real and tropical curves in surfaces II.</i> | abstract # 1111-51-131 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 21 Fractional and Time-scale Analysis

Wednesday June 10, 2015 – Room M107

- | | | |
|-------------|--|--|
| 9:00-9:20 | Natalia Martins
<i>Krause's model of opinion dynamics on time scales.</i> | abstract # 1111-37-155 |
| 9:30-9:50 | Manuel D. Ortigueira
<i>Exponentials and transforms on regular time scales.</i> | abstract # 1111-93-438 |
| 10:00-10:20 | Loïc Bourdin
<i>Optimal sampled-data controls, and generalizations on time scales.</i> | abstract # 1111-49-80 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | Nagwa Mohamed Arafa
<i>Controlling the power laws in shell models of turbulence.</i> | abstract # 1111-49-806 |
| 11:30-11:50 | Simão P. S. Santos
<i>Noether's theorem for higher-order variational problems of Herglotz type.</i> | abstract # 1111-49-160 |

Thursday June 11, 2015 – Room M107

- | | | |
|-------------|--|--|
| 13:30-13:50 | Sanja Konjik
<i>Fractional models of the wave equation.</i> | abstract # 1111-35-21 |
| 14:00-14:20 | Moulay Rchid Sidi Ammi
<i>Finite difference/spectral approximations for the time-fractional thermistor problem.</i> | abstract # 1111-39-28 |
| 14:30-14:50 | Agnieszka B. Malinowska
<i>Variational problems with the fractional-order backward-difference.</i> | abstract # 1111-49-454 |
| 15:00-15:20 | Nuno R. O. Bastos
<i>A numerical method to solve higher-order fractional differential equations.</i> | abstract # 1111-41-56 |

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room M109

- 13:00-13:20 Christopher S. Goodrich [abstract # 1111-39-25](#)
Monotonicity and convexity for discrete fractional difference operators.
- 13:30-13:50 Carla M. Pinto [abstract # 1111-34-236](#)
Fractional model of typical stages in HIV epidemics.
- 14:00-14:20 Ricardo Almeida [abstract # 1111-49-18](#)
The Caputo-Katugampola fractional derivative: properties and optimization problems.
- 14:30-14:50 Hegagi Mohamed Ali [abstract # 1111-49-769](#)
A new technique to find Pontryagin maximum principle and necessary optimality conditions of fractional nonlinear optimal control problems.
- 15:00-15:20 Delfim F. M. Torres [abstract # 1111-26-29](#)
Duality of left and right fractional operators.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1_yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american mathematical society european mathematical society sociedade portuguesa de matemática



Special Session 22 Geometric Analysis

Friday June 12, 2015 – Room M031

- 9:30-10:20 Ambrozio no abstract
Three-dimensional static manifolds with positive scalar curvature.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Fine abstract # 1111-58-116
A gauge theoretic approach to Einstein 4-manifolds.

Friday June 12, 2015 – Room M031

- 13:30-14:20 Sharp abstract # 1111-53-350
Compactness theorems for minimal hypersurfaces with bounded index.
- 14:30-15:20 Wang abstract # 1111-53-800
Geometry of two-dimensional self-shrinkers.

Saturday June 13, 2015 – Room M031

- 9:30-10:20 Carlotto abstract # 1111-53-559
Variations on the Bernstein problem in asymptotically flat spaces.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Abreu abstract # 1111-58-304
Scalar flat Kähler-Sasaki metrics on toric symplectic cones.

Saturday June 13, 2015 – Room M031

- 13:30-14:20 Cannas da Silva abstract # 1111-53-295
Lagrangian correspondences - a toric case study.
- 14:30-15:20 Salavessa abstract # 1111-53-567
Cheng's type comparison results for the principal eigenvalue of a V -drift Laplacian on a Riemannian manifold.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 23 Geometric Aspects of Harmonic Analysis

Wednesday June 10, 2015 – Room M030

- 13:00-13:20 Antonio Córdoba [abstract # 1111-42-316](#)
Pointwise estimates for fractional laplacians.
- 13:30-13:50 Stefan Steinerberger [abstract # 1111-26-171](#)
A rigidity phenomenon for the Hardy-Littlewood maximal function.
- 14:00-14:20 Kevin Hughes [abstract # 1111-42-242](#)
Lacunary averages for discrete hypersurfaces.
- 14:30-14:50 Mariusz Mirek [abstract # 1111-42-626](#)
 $\ell^p(\mathbf{Z}^d)$ boundedness for discrete operators of Radon types: maximal and variational estimates.
- 15:00-15:20 Emanuel Carneiro [abstract # 1111-42-665](#)
Gaussian subordination and the weighted Beurling-Selberg extremal problem.

Thursday June 11, 2015 – Room M030

- 9:00-9:20 Jonathan Bennett [abstract # 1111-44-632](#)
Regularity and the Brascamp-Lieb constant.
- 9:30-9:50 Taryn Flock [abstract # 1111-42-662](#)
On extremizers of certain inequalities for the k -plane transform.
- 10:00-10:20 Francesco Di Plinio [abstract # 1111-42-609](#)
A Calderon-Zygmund decompositions for multiple frequencies and applications.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Victor Lie [abstract # 1111-05-812](#)
Extremizers for the 2D Kakeya problem.
- 11:30-11:50 Michael Bateman [abstract # 1111-05-717](#)
Inverse 2D Kakeya theorems.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room M005

13:00-13:20	Anthony Carbery <i>The magnitude of balls in Euclidean spaces – an application of analysis to the theory of enriched categories.</i>	abstract # 1111-42-672
13:30-13:50	Marina Iliopoulou <i>Keakeya-type questions and polynomial partitioning.</i>	abstract # 1111-05-535
14:00-14:20	Camil Muscalu <i>Higher singular integrals.</i>	abstract # 1111-42-394
14:30-14:50	Eyvindur Palsson <i>Finite point configurations.</i>	abstract # 1111-42-590
15:00-15:20	Jim Wright <i>Classical inequalities of Paley and Zygmund: higher dimensional variants.</i>	no abstract

Saturday June 13, 2015 – Room M005

9:00-9:20	Alexander Volberg <i>Integrating non-linear PDE to prove some sharp weak type estimates in harmonic analysis.</i>	abstract # 1111-26-230
9:30-9:50	Maria Carmen Reguera <i>Weighted theory for the Bergman projection.</i>	abstract # 1111-42-783
10:00-10:20	Jacek Dziubanski <i>On certain characterizations of Hardy spaces associated with some Schrödinger operators.</i>	abstract # 1111-42-732
10:20-11:00	Coffee/Tea Break	
11:00-11:20	Vjekoslav Kovac <i>On some multilinear operators with general dilation invariances.</i>	abstract # 1111-42-739
11:30-11:50	Po-Lam Yung <i>A critical Sobolev embedding for the hyperbolic spaces.</i>	abstract # 1111-42-498
12:00-12:20	Damiano Foschi <i>TBA</i>	no abstract

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015 10 - 13 June, Porto - Portugal INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 24 Geometric Spectral Theory

Wednesday June 10, 2015 – Room M031

- 9:30-10:20 Juan Gil no abstract
Spectra of singular elliptic operators on graphs.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Eveline Legendre abstract # 1111-58-712
The first eigenvalue of compact toric Kähler manifold.

Thursday June 11, 2015 – Room M031

- 9:30-10:20 Carolyn Gordon abstract # 1111-58-714
Isospectrality of Dirichlet-to-Neumann operators.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Alexandre Girouard abstract # 1111-58-716
The Steklov spectrum: asymptotics and invariants.

Thursday June 11, 2015 – Room M031

- 13:30-14:20 Craig Sutton abstract # 1111-58-718
Hearing the length spectrum of a compact Lie group.
- 14:30-15:20 Alejandro Uribe no abstract
The asymptotic pseudospectrum and numerical range of complex potentials on Zoll manifolds.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 25 Geometrical and Enumerative Structures in Supersymmetry

Wednesday June 10, 2015 – Room Q010

- | | | |
|-------------|--|--|
| 9:00-9:20 | Daniel Persson
<i>Fricke S-duality and BPS-state counting.</i> | no abstract |
| 9:30-9:50 | Sergei Alexandrov
<i>Symmetries of string compactifications and generalization of Freed-Witten anomaly.</i> | abstract # 1111-81-220 |
| 10:00-10:20 | Susanne Reffert
<i>Deformed supersymmetric gauge theories from string and M-theory.</i> | abstract # 1111-81-190 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | Ricardo Couso-Santamaria
<i>The theory of resurgence in matrix models and topological strings.</i> | abstract # 1111-40-379 |
| 11:30-11:50 | Constantinos Papageorgakis
<i>Instanton operators in 5D gauge theories.</i> | abstract # 1111-81-222 |

Friday June 12, 2015 – Room Q019

- | | | |
|-------------|--|--|
| 9:00-9:20 | Katrin Wendland
<i>Supersymmetry decomposes the virtual bundle that underlies the elliptic genus.</i> | abstract # 1111-81-68 |
| 9:30-9:50 | Sameer Murthy
<i>Little string theories, Umbral moonshine and mock modular forms.</i> | abstract # 1111-11-339 |
| 10:00-10:20 | Sergei Gukov
<i>Counting RG flows.</i> | no abstract |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | João Gomes
<i>Localization in supergravity and exact holography.</i> | abstract # 1111-83-261 |
| 11:30-11:50 | Stefano Cremonesi
<i>The Coulomb branch of 3d $N = 4$ gauge theories and the moduli space of instantons.</i> | abstract # 1111-81-408 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1_yy are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room F-119

- | | | |
|-------------|--|--|
| 13:00-13:20 | Lotte Hollands
<i>Opers, spectral networks and the T3 theory.</i> | abstract # 1111-81-227 |
| 13:30-13:50 | Hans Jockers
<i>Phases of gauged linear sigma models and homological projective duality for Calabi-Yau manifolds.</i> | abstract # 1111-81-685 |
| 14:00-14:20 | Abhijit Gadde
<i>Exact solutions of 2d supersymmetric gauge theories.</i> | abstract # 1111-81-435 |
| 14:30-14:50 | Anindya Dey
<i>Mirror symmetry, partition function and gauged linear quivers.</i> | abstract # 1111-81-439 |
| 15:00-15:20 | Emanuel Scheidegger
<i>Topological strings and modularity.</i> | abstract # 1111-14-631 |

Rooms M_xyy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 26

Heteroclinic Cycles and Networks: Stability and Dynamics

Thursday June 11, 2015 – Room M219

- 9:00-9:50 Mike J. Field [abstract # 1111-37-105](#)
Realizing a heteroclinic network in a homogeneous or heterogeneous identical cell system.
- 10:00-10:20 Jürgen Knobloch [abstract # 1111-37-141](#)
Perturbations of homoclinic snaking scenarios.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Alastair Rucklidge [abstract # 1111-37-157](#)
Travelling waves in spatial Rock-Paper-Scissors.
- 11:30-11:50 Olga Podvigina [abstract # 1111-37-390](#)
Simple and pseudo-simple heteroclinic cycles in \mathbb{R}^4 .

Friday June 12, 2015 – Room M219

- 9:00-9:20 Isabel Labouriau no abstract
Dynamics near heteroclinic networks with saddle-foci.
- 9:30-9:50 Andrey Shilnikov [abstract # 1111-37-826](#)
Quest into homoclinic chaos.
- 10:00-10:20 Jonathan Dawes [abstract # 1111-37-752](#)
Frequency locking near heteroclinic cycles.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Santiago Ibáñez [abstract # 1111-34-545](#)
Dynamics around a network of bifocal homoclinic orbits.
- 11:30-11:50 Roberto Barrio [abstract # 1111-37-120](#)
Homoclinic and Heteroclinic phenomena in single neuron models and in small neuron networks.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M219

- | | | |
|-------------|---|--|
| 13:00-13:20 | Manuela Aguiar
<i>Heteroclinic cycles and networks in coupled cell systems.</i> | abstract # 1111-34-551 |
| 13:30-13:50 | Alexander Lohse
<i>Existence and stability of elementary heteroclinic networks in \mathbb{R}^4.</i> | abstract # 1111-34-517 |
| 14:00-14:20 | Jens Rademacher
<i>Pathwise unfolding of heteroclinic networks with periodic orbits.</i> | abstract # 1111-34-731 |
| 14:30-15:20 | Ale Jan Homburg
<i>Codimension one homoclinic cycles.</i> | abstract # 1111-37-340 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 27 Higgs Bundles and Character Varieties

Wednesday June 10, 2015 – Room M005

13:00-13:20	Vicente Muñoz <i>Geometric techniques for character varieties.</i>	no abstract
13:30-13:50	Graeme Wilkin <i>Morse theory for Higgs bundles.</i>	abstract # 1111-58-329
14:00-14:20	Sean Lawton <i>Homotopy groups of character varieties.</i>	abstract # 1111-14-65
14:30-14:50	Steven Rayan <i>Hyperpolygons and Hitchin systems.</i>	abstract # 1111-14-434
15:00-15:20	Oscar Garcia-Prada <i>Parabolic Higgs bundles and representations of the fundamental group of a punctured surface.</i>	abstract # 1111-51-607

Thursday June 11, 2015 – Room M005

9:00-9:20	Laura Schaposnik <i>Higgs bundles, spectral data, and applications.</i>	abstract # 1111-51-251
9:30-9:50	Marina Logares <i>Bohr-Sommerfeld Lagrangians for the moduli space of Higgs bundles.</i>	abstract # 1111-14-302
10:00-10:20	Alfonso Zamora <i>GIT characterizations of Harder-Narasimhan filtrations.</i>	abstract # 1111-14-279
10:20-11:00	Coffee/Tea Break	
11:00-11:20	Ana Peon-Nieto <i>Quasi-split real groups and the Hitchin map.</i>	abstract # 1111-14-704
11:30-11:50	Javier Martínez <i>E-polynomials of the $SL(2, C)$-character varieties of surface groups.</i>	abstract # 1111-14-46

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room M122

9:00-9:20	Brian Collier <i>A mapping class group invariant parameterization of maximal $\mathrm{Sp}(4, \mathbb{R})$ representations.</i>	abstract # 1111-53-373
9:30-9:50	Hartmuth Weiss <i>Ends of moduli spaces of Higgs bundles.</i>	abstract # 1111-53-228
10:00-10:20	Qionglin Li <i>Asymptotics of certain families of Higgs bundles.</i>	abstract # 1111-53-519
10:20-11:00	Coffee/Tea Break	
11:00-11:20	Susana Carvalho Ferreira <i>Schottky bundles.</i>	abstract # 1111-14-784
11:30-11:50	Mario Garcia-Fernandez <i>Balanced metrics on twisted Higgs Bundles.</i>	abstract # 1111-53-591
12:00-12:20	Richard Wentworth <i>Deligne pairings and holomorphic extension of analytic torsion.</i>	abstract # 1111-14-629

Rooms M_xyy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q0yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 28 Higher Dimensional Algebra in Geometry and Quantum Field Theory

Wednesday June 10, 2015 – Room M004

- 13:00-13:50 Chenchang Zhu [abstract # 1111-53-638](#)
Higher category for L_∞ -groupoids.
- 14:00-14:20 Christoph Wockel [abstract # 1111-22-726](#)
Bisections of Lie groupoids as a link between infinite-dimensional and higher geometry.
- 14:30-14:50 Friedrich Wagemann [abstract # 1111-18-107](#)
On the string Lie algebra.
- 15:00-15:20 Lucio Simone Cirio [abstract # 1111-16-562](#)
A categorification of infinitesimal braidings and of Casimir Lie algebras.

Thursday June 11, 2015 – Room M004

- 13:00-13:50 Urs Schreiber [abstract # 1111-53-686](#)
Obstruction theory for parameterized higher WZW-terms.
- 14:00-14:20 Christoph Schweigert [abstract # 1111-81-40](#)
Symmetries and defects in three-dimensional topological field theory.
- 14:30-14:50 Jeffrey C. Morton [abstract # 1111-18-576](#)
Transformation double groupoids in higher gauge theory.
- 15:00-15:20 John Huerta [abstract # 1111-18-592](#)
Trigroups and M-theory.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room M004

- 9:00-9:50 Christopher J. Schommer-Pries [abstract # 1111-55-574](#)
Extended 3-dimensional topological field theories.
- 10:00-10:20 I. Runkel [abstract # 1111-81-352](#)
Defects, orbifolds and spin.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Thomas Nikolaus [abstract # 1111-55-623](#)
Global equivariant homotopy theory.
- 11:30-11:50 Yaël Frégier [abstract # 1111-18-564](#)
 L_∞ algebras governing simultaneous deformations in algebra and geometry.

Saturday June 13, 2015 – Room M004

- 13:00-13:50 Alberto S. Cattaneo [abstract # 1111-55-404](#)
Perturbative BV-BFV theories on manifolds with boundary.
- 14:00-14:20 Aleksandar Mikovic [no abstract](#)
Canonical quantization of Poincare BFCG theory.
- 14:30-14:50 Paolo Aschieri [abstract # 1111-53-742](#)
Noncommutative Chern-Simons gauge and gravity theories and their geometric Seiberg-Witten map.

Rooms Mxyy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q0yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 29 History and Philosophy of Mathematics

Wednesday June 10, 2015 – Room M029

- 9:00-9:20 J.C. Domingues [abstract # 1111-01-480](#)
Cunha's calculus in its times.
- 9:30-9:50 F. Figueiredo [abstract # 1111-01-490](#)
The enlightened jesuit: Monteiro da Rocha (1734-1819) and the reformation of the University of Coimbra (1772).
- 10:00-10:20 H. Pinto [abstract # 1111-01-541](#)
The reasons behind the request of the mathematician Gomes Teixeira to be transferred to the Polytechnic Academy of Porto – a peculiar event in the Portuguese context.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 A.P. Martins [abstract # 1111-62-378](#)
Portuguese life assurance companies in the 19th century: contributions by Cláudio Adriano da Costa on premium tables. A pioneering case?
- 11:30-11:50 E.M. Pinho [abstract # 1111-01-608](#)
In search of its place. The teaching of Descriptive Geometry in Porto in the nineteenth century.
- 12:00-12:20 L. Saraiva [abstract # 1111-01-391](#)
The participation of Portuguese mathematicians in the first Iberian Congresses for the Progress of Science (1921-1932).

Thursday June 11, 2015 – Room M029

- 9:00-9:20 M. Blanco [abstract # 1111-01-84](#)
Edmund Stone and the study of mathematical instruments: of the use of the "English sector" in trigonometry.
- 9:30-9:50 M. Zack [abstract # 1111-01-331](#)
Lisbon, London and the mathematics of materials.
- 10:00-10:20 R. Santos [abstract # 1111-01-432](#)
Continuous probabilities, random points, Bernoulli's theorems, and geometric probability applications.
- 10:20-11:00 **Coffee/Tea Break**

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Thursday June 11, 2015 – Room M029

- 11:00-11:20 C.A. Mota [abstract # 1111-01-805](#)
The concept of tangent line in the scientific work of Francisco Gomes Teixeira.
- 11:30-11:50 J. Stillwell [abstract # 1111-01-17](#)
Historical examples of “reverse mathematics”.
- 12:00-12:20 H. Grant [abstract # 1111-01-467](#)
“Epistemic cultures” and the history of mathematics.

Friday June 12, 2015 – Room M029

- 9:00-9:20 R. Wilson [abstract # 1111-05-410](#)
A century of graph theory.
- 9:30-9:50 J. Barrow-Green [abstract # 1111-01-427](#)
Olaus Henrici and mathematical models.
- 10:00-10:20 J. Gray [abstract # 1111-01-361](#)
The Plateau problem from Riemann and Schwarz to the first Fields Medal.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 A. Rice [abstract # 1111-01-210](#)
Partnership and partition: the third man in the Hardy-Ramanujan collaboration.
- 11:30-11:50 J. Tattersall [abstract # 1111-01-320](#)
Mary Cartwright and G.H. Hardy’s Oxford seminar.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 30 Holomorphic Dynamics

Wednesday June 10, 2015 – Room F-120

- 9:00-9:20 Mitsuhiro Shishikura [abstract # 1111-37-804](#)
Smoothness of hairs for some entire functions.
- 9:30-9:50 Saeed Zakeri [abstract # 1111-37-751](#)
Conformal fitness and uniformization of holomorphically moving disks.
- 10:00-10:20 Mónica Moreno-Rocha [abstract # 1111-30-396](#)
Connectivity of Julia sets for elliptic functions.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Christian Henriksen [abstract # 1111-37-822](#)
Fine structure of Herman rings.
- 11:30-11:50 David Martí [abstract # 1111-37-687](#)
Escaping Fatou components of transcendental self-maps of the punctured plane.

Thursday June 11, 2015 – Room F-120

- 13:00-13:20 Pascale Roesch [abstract # 1111-37-283](#)
Newton methods.
- 13:30-13:50 Bogusława Karpinska [abstract # 1111-37-121](#)
Absorbing domains for holomorphic maps I.
- 14:00-14:20 Krzysztof Baranski [abstract # 1111-37-122](#)
Absorbing domains for holomorphic maps II.
- 14:30-14:50 Linda Keen [abstract # 1111-37-321](#)
Shell components of transcendental meromorphic maps.
- 15:00-15:20 Bastien Rossetti [abstract # 1111-37-681](#)
Characterization of postcritically finite ramified coverings by finite planar graphs.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1_yy are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room F-120

- 9:00-9:20 Carsten Petersen [abstract # 1111-37-459](#)
On quasi-conformal (in-)compatibility of satellite copies of the Mandelbrot set.
- 9:30-9:50 Gwyneth Stallard [abstract # 1111-30-700](#)
Commuting functions and multiply connected wandering domains.
- 10:00-10:20 Adam Epstein [abstract # 1111-37-319](#)
Generalizing Douady's magic formula.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Núria Fagella [abstract # 1111-37-314](#)
Connectivity of Julia sets of Newton maps: a unified approach (II).
- 11:30-11:50 Vasiliki Evdoridou [abstract # 1111-37-603](#)
Uniform rates of escape of transcendental entire functions.

Saturday June 13, 2015 – Room F-120

- 13:00-13:20 Phil Rippon [abstract # 1111-30-698](#)
Escaping boundary points of Baker domains.
- 13:30-13:50 Masashi Kisaka [abstract # 1111-37-746](#)
Baby Mandelbrot sets are born in Julia sets.
- 14:00-14:20 Antonio Garijo [abstract # 1111-37-536](#)
On McMullen-like mappings.
- 14:30-14:50 Jinsong Zeng [abstract # 1111-37-209](#)
Criterion for rays landing together.
- 15:00-15:20 Arnaud Cheritat [abstract # 1111-37-72](#)
Siegel disks of degree 3 polynomials.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1_yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 31 Homogenization and Its Contemporary Stochastic Aspects

Wednesday June 10, 2015 – Room F-119

- 13:00-13:50 Guy Bouchitte [abstract # 1111-35-380](#)
Diffraction by random nanorods structures.
- 14:00-14:50 Antoine Gloria [abstract # 1111-35-412](#)
Quantitative homogenization via weighted nonlocal concentration inequalities.
- 15:00-15:20 Elisa Davoli [abstract # 1111-49-60](#)
Homogenization of integral energies under periodically oscillating differential constraint.

Thursday June 11, 2015 – Room F-119

- 9:00-9:50 Stefan Neukamm [abstract # 1111-35-414](#)
Quantitative stochastic homogenization: bounds on the corrector in the discrete, non-symmetric case.
- 10:00-10:20 Marco Morandotti [abstract # 1111-35-50](#)
Homogenization of functionals with linear growth in the context of A -quasiconvexity.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Ana M. Ribeiro [abstract # 1111-49-725](#)
An Homogenization Result in $W^{1,p} \times L^q$.
- 11:30-11:50 Carolin Kreisbeck [abstract # 1111-49-332](#)
Heterogeneous thin films: homogenization and dimension reduction of functionals with differential constraints.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1_yy are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room F-119

13:00-13:50	Charles Smart <i>TBA</i>	no abstract
14:00-14:50	Scott Armstrong <i>TBA</i>	no abstract
15:00-15:20	Elvira Zappale <i>Homogenization for unbounded and supremal functionals.</i>	abstract # 1111-49-294

Saturday June 13, 2015 – Room F-119

9:00-9:50	Andrey Piatnitski <i>TBA</i>	no abstract
10:00-10:20	Rita Ferreira <i>Spectral analysis in thin tubes with axial heterogeneities.</i>	abstract # 1111-35-442
10:20-11:00	Coffee/Tea Break	
11:00-11:50	Alexei Novikov <i>Homogenization in stationary fluid flows.</i>	abstract # 1111-35-58

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 32 Homological and Combinatorial Commutative Algebra

Wednesday June 10, 2015 – Room M107

- | | | |
|-------------|--|--|
| 13:00-13:20 | Ragnar Buchweitz
<i>A representation generator for simple curve singularities.</i> | abstract # 1111-13-611 |
| 13:30-13:50 | Alex Constantinescu
<i>Hilbert schemes, Groebner cells, and extension algebras.</i> | abstract # 1111-13-743 |
| 14:00-14:20 | Rafael Villarreal
<i>Projective Segre codes.</i> | abstract # 1111-13-204 |
| 14:30-14:50 | Anurag Singh
<i>Frobenius action on the cohomology of thickenings.</i> | abstract # 1111-13-497 |
| 15:00-15:20 | Matteo Varbaro
<i>Linear syzygies and regularity.</i> | abstract # 1111-13-469 |

Thursday June 11, 2015 – Room M107

- | | | |
|-------------|---|--|
| 9:00-9:20 | Martina Kubitzke
<i>A generalized balanced lower bound theorem for balanced polytopes.</i> | abstract # 1111-13-518 |
| 9:30-9:50 | Maria Evelina Rossi
<i>The structure of the inverse system of Gorenstein local rings.</i> | abstract # 1111-13-452 |
| 10:00-10:20 | Antonio Macchia
<i>On the ideal of orthogonal representations of a graph in \mathbb{R}^2.</i> | abstract # 1111-13-598 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | Leo Alonso
<i>Hopf algebroids belong in commutative algebra.</i> | abstract # 1111-14-753 |
| 11:30-11:50 | Sandra Spiroff
<i>Connected components, S_2-ifications, and module decompositions.</i> | abstract # 1111-13-387 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room M107

- 9:00-9:20 Pedro Macias Marques [abstract # 1111-13-750](#)
Symmetric decomposition of the associated graded algebra of a Gorenstein Artinian algebra.
- 9:30-9:50 Santiago Zarzuela [abstract # 1111-13-233](#)
Computing local cohomology by using spectral sequences.
- 10:00-10:20 Henrik Holm [abstract # 1111-13-91](#)
The structure of balanced big CM modules over CM rings.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Dolors Herbera [abstract # 1111-13-617](#)
Big pure projective modules.
- 11:30-11:50 Roger Wiegand [abstract # 1111-13-636](#)
Betti diagrams and Hilbert functions of Koszul modules over short Gorenstein rings.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 33 Hyperbolic Conservation Laws and Their Regularization

Wednesday June 10, 2015 – Room F-116

- 9:00-9:50 Evgeny Yu. Panov [abstract # 1111-35-346](#)
On one operator criterion of the uniqueness of generalized solutions to a linear transport equation with rough coefficients.
- 10:00-10:20 Youcef Mammeri [abstract # 1111-35-515](#)
On vanishing nonlinear dissipative-dispersive perturbations of conservation laws.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 François James [abstract # 1111-35-683](#)
Phase transition and metastability.

Friday June 12, 2015 – Room M108

- 9:00-9:50 Wladimir Neves [abstract # 1111-35-709](#)
Some results for nonlocal diffusion equations.
- 10:00-10:20 Paulo Amorim [abstract # 1111-35-94](#)
The obstacle-mass constraint problem for hyperbolic conservation laws. Solvability.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Philippe G. LeFloch [abstract # 1111-35-604](#)
Hyperbolic balance laws with entropy on a curved spacetime.

Saturday June 13, 2015 – Room F-116

- 13:00-13:50 Eduard Feireisl [abstract # 1111-35-345](#)
Weak and strong solutions to problems arising in dynamics of inviscid fluids.
- 14:00-14:50 Athanasios Tzavaras [abstract # 1111-35-129](#)
Coherent localized structures emerging from a parabolic regularization of an ill-posed initial-value problem in materials.
- 15:00-15:20 Michael Grinfeld [abstract # 1111-35-570](#)
Burgers equation with saturating flux.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1_yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 34 Linear Operators and Function Spaces

Wednesday June 10, 2015 – Room Q007

- | | | |
|-------------|--|--|
| 12:30-12:50 | Raul Curto
<i>Abrahamse's Theorem for matrix-valued symbols and subnormal Toeplitz completions.</i> | abstract # 1111-47-423 |
| 13:00-13:20 | Natália Bebiano
<i>Products of Laurent operators and fields of values.</i> | abstract # 1111-47-102 |
| 13:30-13:50 | Dariusz Cichon
<i>A class of Hamburger moment sequences.</i> | abstract # 1111-47-366 |
| 14:00-14:20 | Elizabeth Strouse
<i>Mixed commutators and little product bmo.</i> | abstract # 1111-47-455 |
| 14:30-14:50 | Pawel Pietrzycki
<i>A note on the equation $C^n = C ^n$ and composition operators.</i> | abstract # 1111-47-544 |
| 15:00-15:20 | Sónia Carvalho
<i>On derivatives and norms of generalized matrix functions and respective symmetric powers.</i> | abstract # 1111-15-202 |

Thursday June 11, 2015 – Room Q007

- | | | |
|-------------|--|--|
| 9:00-9:20 | Michael Dritschel
<i>Realizations via preorderings with application to the Schur Class.</i> | abstract # 1111-47-803 |
| 9:30-9:50 | Franciszek Hugon Szafraniec
<i>Coherent states without measure.</i> | abstract # 1111-47-543 |
| 10:00-10:20 | Zenon Jablonski
<i>Quasinormality of unbounded operators.</i> | abstract # 1111-47-282 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | Roland Duduchava
<i>Mellin convolution equations in Bessel potential spaces.</i> | abstract # 1111-45-194 |
| 11:30-11:50 | M. Laura Arias
<i>On some properties of the additivity of operators ranges.</i> | abstract # 1111-47-309 |
| 12:00-12:20 | Alejandra Maestripieri
<i>Optimal inverses and abstract splines.</i> | abstract # 1111-47-395 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1_yy are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room Q007

- 12:30-12:50 Rongwei Yang [abstract # 1111-47-101](#)
Invariant subspaces in the Hardy space over the Bidisk.
- 13:00-13:20 M. Celeste Gouveia [abstract # 1111-15-588](#)
Solving linear and nonlinear equations with generalized inverses.
- 13:30-13:50 Jani Virtanen [abstract # 1111-47-668](#)
Fredholm theory of Toeplitz operators on Fock spaces.
- 14:00-14:20 Piotr Budzynski [abstract # 1111-47-241](#)
Weighted shifts on directed trees and subnormality.
- 14:30-14:50 Sérgio Mendes [abstract # 1111-47-348](#)
 *K -theory of $C_r^*SL_2(K)$ and a geometric conjecture, K a local function field with characteristic 2.*
- 15:00-15:20 Rui Marreiros [abstract # 1111-47-539](#)
An estimate for the dimension of the kernel of a singular integral operator with non-Carleman shift and conjugation.

Saturday June 13, 2015 – Room Q007

- 9:00-9:20 Jan Stochel [abstract # 1111-47-163](#)
Exotic examples related to subnormality of composition operators over directed graphs with one circuit.
- 9:30-9:50 Jan Fourie [abstract # 1111-46-456](#)
 ℓ_p -Extensions of operator ideals and α -integral operators.
- 10:00-10:20 Daniel Rodriguez [abstract # 1111-47-200](#)
A continuous model for quasinilpotent operators.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Teresa Malheiro [abstract # 1111-47-205](#)
Maximal and minimal functions in model spaces.
- 11:30-11:50 Mathew Jones [abstract # 1111-47-776](#)
Composition operators induced by universal covering maps.
- 12:00-12:20 Issam Louhichi [abstract # 1111-47-734](#)
Commutants of Toeplitz operators.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 35 Low Dimensional Topology and Its Relationships with Physics

Thursday June 11, 2015 – Room M027

- | | | |
|-------------|---|--|
| 9:00-9:20 | Mina Aganagic
<i>Knots and mirror symmetry.</i> | abstract # 1111-81-821 |
| 9:30-9:50 | John Barrett
<i>State sum models and spin structures.</i> | abstract # 1111-81-823 |
| 10:00-10:20 | Sergei Gukov
<i>Categorification of complex Chern-Simons theory.</i> | abstract # 1111-54-639 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | C. Meusburger
<i>Topological lattice models as quantum gauge theories.</i> | abstract # 1111-81-628 |
| 11:30-11:50 | F. Toppan
<i>Conformal Galilei invariant dynamics.</i> | abstract # 1111-35-66 |

Friday June 12, 2015 – Room M027

- | | | |
|-------------|---|--|
| 13:00-13:20 | Hugh M. Hilden
<i>Superregular tessellations and universal groups.</i> | abstract # 1111-57-19 |
| 13:30-13:50 | John Bryden
<i>Representation rings of the Artin braid groups.</i> | no abstract |
| 14:00-14:20 | Nuno Franco
<i>Syllable permutations and hyperbolic Lorenz knots.</i> | abstract # 1111-37-526 |
| 14:30-14:50 | J. Nogueira
<i>Knots with all surfaces essential in their complements.</i> | abstract # 1111-57-347 |

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M027

- 9:00-9:20 L. H. Kauffman abstract # 1111-57-156
Majorana particles, quantum computing and the Dirac equation.
- 9:30-9:50 J. Vicary abstract # 1111-81-677
Topological foundations for quantum computation.
- 10:00-10:20 H. Dye abstract # 1111-57-81
Bounding the number of components of a state of the Jones polynomial and its dual for knots in surfaces.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 A. Kastner abstract # 1111-54-154
A Rasmussen invariant for virtual knot cobordisms.
- 11:30-11:50 M. Silvero abstract # 1111-54-119
Strongly quasipositive links and their Conway polynomials.

Saturday June 13, 2015 – Room M027

- 13:00-13:20 S. Kamada abstract # 1111-57-51
QuaIgebras, branched braids and branched links.
- 13:30-13:50 N. Kamada abstract # 1111-57-52
A generalization of the JKSS invariant to twisted knots.
- 14:00-14:20 Jun Ge abstract # 1111-57-287
Minimal sufficient sets of colors and minimum number of colors.
- 14:30-14:50 Pedro Lopes no abstract
Hard minimum number of colors.
- 15:00-15:20 Stathis Antoniou no abstract
Extending topological surgery to natural processes.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 36 Mathematical Models for Materials

Wednesday June 10, 2015 – Room Q019

- | | | |
|-------------|---|--|
| 13:00-13:20 | Elisa Davoli
<i>Multiscale homogenization in Kirchhoff's nonlinear plate theory.</i> | abstract # 1111-49-64 |
| 13:30-14:20 | Valeriy Slustikov
<i>2D point defects in nematic liquid crystals.</i> | abstract # 1111-49-507 |
| 14:30-14:50 | Marco Barchiesi
<i>Local invertibility in Sobolev spaces and applications.</i> | abstract # 1111-49-596 |
| 15:00-15:20 | Gurgen Hayrapetyan
<i>Sharp interface evolution in amphiphilic systems.</i> | abstract # 1111-35-802 |

Friday June 12, 2015 – Room Q010

- | | | |
|-------------|---|--|
| 13:00-13:50 | Giovanni Leoni
<i>On slow motion for phase transitions.</i> | abstract # 1111-35-24 |
| 14:00-14:20 | Graça Carita
<i>Variational problem of plastic surgery.</i> | abstract # 1111-35-646 |
| 14:30-14:50 | Marco Morandotti
<i>Dynamics for systems of screw dislocations.</i> | no abstract |
| 15:00-15:20 | José Matias
<i>A dimension reduction result in the context of Structured Deformations.</i> | no abstract |

Saturday June 13, 2015 – Room Q010

- | | | |
|-------------|---|--|
| 13:00-13:50 | Matteo Negri
<i>BV evolutions in phase field fracture.</i> | abstract # 1111-74-184 |
| 14:00-14:20 | Anna Zemlyanova
<i>Curvature-dependent surface tension in modelling of fracture.</i> | abstract # 1111-74-34 |
| 14:30-15:20 | Irene Fonseca
<i>Second order gamma-convergence for the Modica Mortola functional.</i> | abstract # 1111-49-69 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 37 Mathematical Models in Epidemiology

Thursday June 11, 2015 – Room M109

- 13:00-13:20 Nicholas F. Britton [abstract # 1111-92-724](#)
Controlling infectious disease in a structured population.
- 13:30-13:50 Abderrahman Iggidr [abstract # 1111-93-246](#)
On the estimation of susceptible proportions in a dengue epidemic system.
- 14:00-14:20 Maira Aguiar [abstract # 1111-37-660](#)
Modelling dengue fever epidemiology: complex dynamics and its implication for data analysis.
- 14:30-14:50 Claudia Torres Codeço [abstract # 1111-92-399](#)
Mathematical models for dengue nowcasting.
- 15:00-15:20 Helio Schechtman [abstract # 1111-92-301](#)
Stage-structured model for Aedes Aegypti and Wolbachia interaction.

Friday June 12, 2015 – Room M109

- 9:00-9:20 Nicolas Bacaer [abstract # 1111-92-281](#)
A stochastic epidemic model in a periodic environment.
- 9:30-9:50 Gabriela Gomes [abstract # 1111-92-43](#)
A missing dimension in measures of disease intervention impacts.
- 10:00-10:20 Carlota Rebelo [abstract # 1111-34-325](#)
Persistence in seasonally forced epidemiological models.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Daniel Villela [abstract # 1111-92-388](#)
Mathematical model of imperfect testing of individuals for infectious diseases.
- 11:30-11:50 Nico Stollenwerk [abstract # 1111-60-658](#)
Chaos and noise in population biology: the case study of dengue fever epidemiology, modelling and data analysis.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M109

- 9:00-9:20 Ana R. Carvalho [abstract # 1111-92-238](#)
Effects of treatment, awareness and condom use in a coinfection model for HIV and HCV in MSM.
- 9:30-9:50 Flávio Codeço Coelho [abstract # 1111-92-322](#)
Estimating the attack ratio of dengue epidemics under time-varying force of infection using aggregated notification data.
- 10:00-10:20 Filipa Nunes Nogueira [abstract # 1111-49-583](#)
Optimal control for epidemiology using SEIR models: the role of state and mixed constraints.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Paulo Doutor [abstract # 1111-92-605](#)
Vaccination in seasonal epidemics with temporary immunity: optimal strategy and rational behavior.
- 11:30-11:50 José Martins [abstract # 1111-91-486](#)
A game theoretical analysis of vaccination games.

Rooms M_xyy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 38 Mathematical Relativity

Wednesday June 10, 2015 – Room Q019

- 9:00-9:50 João L. Costa [abstract # 1111-35-354](#)
Cosmic “No-hair” for a self-gravitating scalar field.
- 10:00-10:20 Jorge Drumond Silva [abstract # 1111-83-385](#)
On the global uniqueness for the Einstein-Maxwell-scalar field system with a cosmological constant.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Jacques Smulevici [abstract # NA](#)
Vector field methods for transport equations with applications.

Thursday June 11, 2015 – Room Q019

- 9:00-9:50 Philippe G. LeFloch [abstract # 1111-83-600](#)
Weak solutions to the Einstein equations in spherical or T^2 symmetry.
- 10:00-10:20 David Fajman [abstract # 1111-83-744](#)
Nonlinear Stability for the Einstein-Vlasov system in $2 + 1$ dimensions.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Pedro Martins Girão [abstract # 1111-83-362](#)
Price’s law and uniqueness for the Einstein-Maxwell-scalar field system with a cosmological constant.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room Q019

- 13:00-13:50 Robert Beig [abstract # 1111-74-136](#)
Relativistic celestial mechanics of elastic bodies.
- 14:00-14:50 Raül Vera [abstract # 1111-83-594](#)
Revisiting Hartle's model using perturbed matching theory to second order: amending the change in mass.
- 15:00-15:20 S. Beheshti [abstract # 1111-83-476](#)
Harmonic maps, the Xanthopoulos conjecture and analysis of singularities in general relativity.

Saturday June 13, 2015 – Room Q019

- 13:00-13:50 José M. M. Senovilla [abstract # 1111-83-407](#)
Umbilical properties of co-dimension two submanifolds.
- 14:00-14:50 Miguel Sanchez [abstract # 1111-53-47](#)
Wind Finsler structures: from Zermelo's navigation to the causality of spacetimes.

Rooms M_xyy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q0yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 39 Mathematics and the Arts

Wednesday June 10, 2015 – Room M005

- | | | |
|-------------|---|--|
| 9:00-9:20 | Carolyn A. Yackel
<i>An analysis of fair isle knitting.</i> | abstract # 1111-00-280 |
| 9:30-9:50 | Susan Goldstine
<i>Thinking outside the torus: new directions in bead crochet.</i> | abstract # 1111-00-468 |
| 10:00-10:20 | Craig S. Kaplan
<i>Islamic star patterns from X-tiles.</i> | abstract # 1111-51-277 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | Penousal Machado
<i>Evolutionary art: beyond interactive evolution.</i> | abstract # 1111-68-748 |
| 11:30-11:50 | Carlota Simões
<i>Camoens, Ovid and Mathematics.</i> | abstract # 1111-97-250 |

Thursday June 11, 2015 – Room M005

- | | | |
|-------------|---|--|
| 13:00-13:20 | Rinus Roelofs
<i>Leonardo's elevated polyhedra – extended to flat patterns – models.</i> | abstract # 1111-51-36 |
| 13:30-13:50 | John M. Sullivan
<i>Visualizations of tight knots and links.</i> | abstract # 111-53-788 |
| 14:00-14:20 | Konrad Polthier
<i>Lifted domain coloring.</i> | abstract # 1111-51-814 |
| 14:30-14:50 | Francesco De Comit e
<i>Yvon-Villarceau circles equivalents on Dupin cyclides.</i> | abstract # 1111-51-79 |
| 15:00-15:20 | Douglas Dunham
<i>Repeating patterns on triply periodic polyhedra.</i> | abstract # 1111-51-492 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room M005

9:00-9:20	Radmila Sazdanovic <i>Visual thinking in mathematics.</i>	abstract # 1111-00-397
9:30-9:50	Anne Mendes Burns <i>Variation of parameters: visual proof in complex analysis.</i>	abstract # 1111-00-77
10:00-10:20	Michael J. Field <i>Visualizing complex dynamics and structure in dynamical systems.</i>	abstract # 1111-37-93
10:20-11:00	Coffee/Tea Break	
11:00-11:20	Pedro J. Freitas <i>The mathematical problems of Almada Negreiros.</i>	abstract # 1111-01-293
11:30-11:50	Maria Luisa Spreafico <i>Modelling vaults: from laser scanning techniques to origami.</i>	abstract # 1111-51-33

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 40 New Trends in Automata Groups and Semigroups

Wednesday June 10, 2015 – Room M007

- | | | |
|-------------|--|--|
| 9:00-9:20 | S. Sidki
<i>Virtual endomorphisms and lamplighter groups.</i> | abstract # 1111-20-451 |
| 9:30-9:50 | I. Klimann
<i>On torsion elements in a (semi)group generated by a reversible automaton.</i> | abstract # 1111-20-214 |
| 10:00-10:20 | T. Brough
<i>Automaton semigroup constructions.</i> | abstract # 1111-20-773 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | M. Kambites
<i>Amenability of finitely generated semigroups.</i> | abstract # 1111-20-509 |
| 11:30-11:50 | T. Ceccherini-Silberstein
<i>On soficity and surjunctivity for monoids.</i> | abstract # 1111-20-630 |

Friday June 12, 2015 – Room M007

- | | | |
|-------------|--|--|
| 13:00-13:20 | R. Grigorchuk
<i>On diagonal actions of branch groups and the corresponding characters.</i> | abstract # 1111-20-199 |
| 13:30-13:50 | Z. Sunic
<i>Grigorchuk group as the iterated monodromy group of the Ulam - von Neumann map.</i> | abstract # 1111-20-503 |
| 14:00-14:20 | T. Nagnibeda
<i>De Bruijn graphs, lamplighter groups and spectral computations.</i> | abstract # 1111-20-286 |
| 14:30-14:50 | R. Kravchenko
<i>Self-similar actions of Lamplighter groups.</i> | abstract # 1111-20-786 |
| 15:00-15:20 | P. Silva
<i>Compact completions: from hyperbolic to self-similar groups.</i> | abstract # 1111-20-446 |

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M007

- | | | |
|-------------|--|--|
| 9:00-9:20 | V. Nekrashevych
<i>Automata groups and automatic sequences.</i> | abstract # 1111-20-633 |
| 9:30-9:50 | M. Picantin
<i>From automatic semigroups to automaton semigroups.</i> | abstract # 1111-20-109 |
| 10:00-10:20 | B. Steinberg
<i>Algorithms for invertible transducers and automaton groups: a retrospective and problems.</i> | abstract # 1111-20-501 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | C. Bleak
<i>On the semi-decidability of the periodicity problem for elements of various groups.</i> | abstract # 1111-20-747 |
| 11:30-11:50 | E. Ventura
<i>Automaton groups with unsolvable conjugacy problem.</i> | abstract # 1111-20-189 |

Rooms M_xyy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 41 New Trends in Representation Theory

Wednesday June 10, 2015 – Room M003

- 13:30-14:20 Alexander Kleshchev no abstract
Affine quasihereditary structures on KLR algebras.
- 14:30-15:20 Marko Stosic [abstract # 1111-55-269](#)
Lie superalgebras and double affine Hecke algebras in colored HOMFLYPT knot invariants.

Thursday June 11, 2015 – Room M003

- 9:30-10:20 Marco Mackaay [abstract # 1111-18-126](#)
Web-bimodules over Webster's cyclotomic tensor algebras and comparison of knot homologies in type A.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Volodymyr Mazorchuk [abstract # 1111-18-27](#)
Finitary 2-categories and their 2-representations.

Friday June 12, 2015 – Room M003

- 12:30-1:20 Julian Kulshammer [abstract # 1111-16-372](#)
Boxes and filtered representation type of Schur algebras.
- 13:30-14:20 Ivan Yudin [abstract # 1111-16-589](#)
Twisted products, stratifying ideals, and Schur algebras.
- 14:30-15:20 Maud De Visscher [abstract # 1111-20-54](#)
Representation theory of the partition algebra.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M003

- | | | |
|-------------|--|--|
| 12:30-1:20 | Robert Marsh
<i>Rigid and Schurian modules over cluster-tilted algebras of tame type.</i> | abstract # 1111-16-482 |
| 13:30-14:20 | Raquel Coelho Simões
<i>Negative Calabi-Yau triangulated categories.</i> | abstract # 1111-18-462 |
| 14:30-15:20 | Stephen Donkin
<i>Composition factors of symmetric powers.</i> | abstract # 1111-20-702 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 42 Nonassociative Algebras and Related Topics

Wednesday June 10, 2015 – Room M031

- | | | |
|-------------|--|--|
| 13:00-13:50 | Efim Zelmanov
<i>On Jordan and Lie superalgebras.</i> | abstract # 1111-17-659 |
| 14:00-14:20 | Irene Paniello
<i>Genetic coalgebras and cubic stochastic matrices.</i> | abstract # 1111-17-622 |
| 14:30-14:50 | Lina Oliveira
<i>On the geometry of the unit ball in a JB^*-triple.</i> | abstract # 1111-17-620 |
| 15:00-15:20 | Consuelo Martínez López
<i>Some infinite dimensional (super)algebras and their representations.</i> | abstract # 1111-17-383 |

Thursday June 11, 2015 – Room M122

- | | | |
|-------------|---|--|
| 13:00-13:50 | Ivan Shestakov
<i>The Freiheitssatz for generic Poisson algebras.</i> | abstract # 1111-17-491 |
| 14:00-14:20 | José María Pérez-Izquierdo
<i>Non-associative universal enveloping algebras.</i> | abstract # 1111-17-142 |
| 14:30-14:50 | J. M. Casas
<i>Central extensions of Leibniz algebras relative to the Liezation functor.</i> | abstract # 1111-17-216 |
| 15:00-15:20 | N. P. Rego
<i>Semi-direct product of universal α-central extensions of Hom-Leibniz algebras.</i> | abstract # 1111-17-106 |

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room M226

- 9:00-9:20 Manuel Ladra [abstract # 1111-17-537](#)
Non-abelian tensor product and homology of Lie superalgebras.
- 9:30-9:50 Pasha Zusmanovich no abstract
A small step in classification of simple Lie algebras in characteristic 2.
- 10:00-10:20 Xabier García-Martínez [abstract # 1111-17-538](#)
Universal central extensions of Lie-Rinehart algebras.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Said Benayadi no abstract
On para-Kähler Lie algebras.
- 11:30-11:50 Carlos Soneira Calvo [abstract # 1111-17-719](#)
About the splitting of exact sequences of Hopf triples in a non associative setting.

Saturday June 13, 2015 – Room M030

- 9:00-9:20 Liudmila Sabinina [abstract # 1111-17-775](#)
On some class of Malcev algebras.
- 9:30-9:50 Rodrigo L. Rodrigues [abstract # 1111-17-45](#)
The additivity of Jordan derivable maps in alternative rings.
- 10:00-10:20 Seidon Alsaody [abstract # 1111-17-523](#)
Composition algebras, triality, and automorphisms of algebraic groups.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Christian Lomp [abstract # 1111-16-527](#)
Essential extensions of simple modules over enveloping algebras of Lie superalgebras.
- 11:30-11:50 Fernando Montaner [abstract # 1111-17-461](#)
Local Goldie conditions on Jordan Algebras and the socle of their algebras of quotients.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1_yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 43 Nonlinear Elliptic Systems and Applications

Wednesday June 10, 2015 – Room M226

- 9:00-9:50 Susanna Terracini [abstract # 1111-49-548](#)
Existence and regularity of solutions to optimal partition problems involving Laplacian eigenvalues.
- 10:00-10:20 Benedetta Pellacci [abstract # 1111-35-787](#)
Saturable Schrödinger equation and systems: existence and related topics.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Alberto Farina [abstract # 1111-35-212](#)
Some results on entire solutions to a family of nonlinear elliptic systems.

Thursday June 11, 2015 – Room M226

- 9:00-9:50 Marie-Françoise Bidaut-Véron no abstract
Interior and boundary singularities of solutions of quasilinear Hamilton-Jacobi equations.
- 10:00-10:20 Denis Bonheure [abstract # 1111-35-513](#)
Mixed diffusion or mixed dispersion.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Boyan Sirakov [abstract # 1111-35-389](#)
Existence and classification theorems for elliptic systems in non-divergence form.
- 11:30-11:50 Eugénio M. Rocha [abstract # 1111-35-763](#)
Multiplicity results for elliptic problems in adapted Sobolev spaces.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room M226

- 13:00-13:50 Philippe P. Souplet [abstract # 1111-35-363](#)
A priori estimates and bifurcation of solutions for an elliptic equation with semidefinite critical growth in the gradient.
- 14:00-14:20 Sérgio H. M. Soares [abstract # 1111-35-42](#)
A sign-changing solution for an asymptotically linear Schrödinger equation.
- 14:30-14:50 Serena Dipierro [abstract # 1111-35-170](#)
All functions are locally s -harmonic (up to a small error).
- 15:00-15:20 Christos Sourdis [abstract # 1111-34-180](#)
Analysis of the irregular boundary layer for the flow of a Boussinesq fluid.

Saturday June 13, 2015 – Room M226

- 9:00-9:20 Gianmaria Verzini [abstract # 1111-35-450](#)
Solutions with prescribed mass for nonlinear Schrödinger equations and systems.
- 9:30-9:50 Isabel Coelho [abstract # 1111-34-749](#)
Positive solutions of a singular Minkowski-curvature equation.
- 10:00-10:20 Jorge Marques [abstract # 1111-35-370](#)
 C^k -solvability near the characteristic set for a class of elliptic vector fields with degeneracies.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Filomena Pacella [no abstract](#)
From systems to fully nonlinear equations: symmetry results and related questions.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀_{yy} are located in the Chemistry Department on the ground floor; rooms F-1_{yy} are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american mathematical society european mathematical society sociedade portuguesa de matemática

Special Session 44 Nonstandard Analysis and Applications

Wednesday June 10, 2015 – Room Q023

- | | | |
|-------------|---|--|
| 13:00-13:20 | Imme van den Berg
<i>A uniformly bounded nonstandard set theory.</i> | abstract # 1111-03-224 |
| 13:30-13:50 | Benno van den Berg
<i>The proof theory of nonstandard analysis.</i> | abstract # 1111-03-63 |
| 14:00-14:20 | Bruno Dinis
<i>Nonstandard intuitionistic interpretations.</i> | abstract # 1111-03-584 |
| 14:30-14:50 | Jose Chagas Roquette
<i>Calculus with indiscernibility.</i> | abstract # 1111-03-504 |
| 15:00-15:20 | Abdelmadjid Boudaoud
<i>A nonstandard construction of an \aleph_α-universal set.</i> | abstract # 1111-03-416 |

Thursday June 11, 2015 – Room Q023

- | | | |
|-------------|---|--|
| 13:00-13:20 | Marc Diener
<i>Distribution of implicit interest rate for microcredit.</i> | abstract # 1111-60-793 |
| 13:30-13:50 | João Paulo Teixeira
<i>Global existence and regularity of periodic and stationary solutions of the n-dimensional Navier-Stokes equations via discretizations.</i> | abstract # 1111-35-305 |
| 14:00-14:20 | Fernando J. Moreira
<i>Ergodic properties for non invariant measures.</i> | abstract # 1111-37-759 |
| 14:30-14:50 | Júlia Justino
<i>Solution of linear flexible systems.</i> | abstract # 1111-15-371 |
| 15:00-15:20 | Nam Van Tran
<i>On singular and homogeneous flexible systems of linear equations.</i> | abstract # 1111-15-232 |

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room M004

- 13:00-13:20 Augustin Fruchard [abstract # 1111-39-367](#)
Composite asymptotic expansions for differential and difference equations.
- 13:30-13:50 Nadir Sari [abstract # 1111-34-146](#)
Periodic orbits of a seasonal SIS epidemic model with migration.
- 14:00-14:20 Tewfik Sari [abstract # 1111-34-377](#)
MacArthur's consumer-resource model.
- 14:30-14:50 Claude E. Lobry [abstract # 1111-34-767](#)
Switched dynamical systems and persistence in certain models of trophic interaction.
- 15:00-15:20 Luis Gonzaga Albuquerque [abstract # 1111-37-516](#)
Smooth models of discontinuous systems.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 45 The Notion of Proof

Wednesday June 10, 2015 – Room M004

- | | | |
|-------------|---|--|
| 9:00-9:20 | Reinhard Kahle/Jesse Alama
<i>The notion of proof revisited.</i> | abstract # 1111-03-343 |
| 9:30-10:20 | Thomas Hales
<i>The formal proof of the Kepler Conjecture.</i> | abstract # 1111-03-637 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:50 | Freek Wiedijk
<i>TBA</i> | abstract # 1111-03-808 |

Thursday June 11, 2015 – Room M004

- | | | |
|-------------|---|--|
| 9:00-9:50 | Angus John Macintyre
<i>Proofs in PA (first-order Peano arithmetic).</i> | abstract # 1111-03-696 |
| 10:00-10:20 | General discussion session | no abstract |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:50 | Matthias Baaz
<i>Eigenvariable conditions and the structure of proofs.</i> | abstract # 1111-03-684 |

Saturday June 13, 2015 – Room M004

- | | | |
|-------------|--|--|
| 9:30-10:20 | Victor Pambuccian
<i>Provability in axiom systems for weak arithmetic and geometry without actual proofs.</i> | abstract # 1111-03-135 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:50 | N. A. Vavilov
<i>Complexity and reliability of proofs and computations.</i> | abstract # 1111-03-701 |
| 12:00-12:20 | General discussion session | no abstract |

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 46 Operator Theory and Its Applications

Wednesday June 10, 2015 – Room Q023

- 9:00-9:20 Spitkovsky [abstract # 1111-47-289](#)
Toeplitz operators of finite interval type and the table method.
- 9:30-9:50 Bastos [abstract # 1111-47-384](#)
Representations for classes of nonlocal C^ -algebras.*
- 10:00-10:20 Yu. Karlovich [abstract # 1111-47-493](#)
 C^ -algebras of Bergman type operators on polygonal domains.*
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Câmara [abstract # 1111-47-247](#)
Asymmetric truncated Toeplitz operators in the Hardy spaces of the half-plane.
- 11:30-11:50 Stovicek [abstract # 1111-15-393](#)
A family of explicitly diagonalizable weighted Hankel matrices generalizing the Hilbert matrix.
- 12:00-12:20 Sakhnovich [abstract # 1111-47-62](#)
Weyl theory for Dirac operators and applications to initial-boundary value problems for integrable wave equations.

Friday June 12, 2015 – Room Q023

- 12:30-12:50 Wendland [abstract # 1111-31-206](#)
On the n -dimensional Oseen-Brinkman flow around an $(n - 1)$ -dimensional solid obstacle.
- 13:00-13:20 Duduchava [abstract # 1111-35-198](#)
Mixed boundary value problems for the Laplace-Beltrami equation.
- 13:30-13:50 Merzon [abstract # 1111-35-31](#)
Sobolev's and Keller-Blank's formulas in scattering of plane waves by a wedge.
- 14:00-14:20 Zhevandrov [abstract # 1111-76-324](#)
Water waves trapped by thin horizontal cylinders in one- and two-layer fluid.
- 14:30-14:50 A. Karlovich [abstract # 1111-47-217](#)
Banach algebra of the Fourier multipliers on weighted Banach function spaces.
- 15:00-15:20 Carvalho [abstract # 1111-47-602](#)
Index formulas for pseudodifferential operators on compactified domains.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room Q023

- | | | |
|-------------|---|--|
| 12:00-12:20 | S. Samko | abstract # 1111-46-303 |
| | <i>Exact formulas for $p - > q$ norms of one- and many-dimensional Hardy operators.</i> | |
| 12:30-1:00 | Persson | abstract # 1111-46-307 |
| | <i>Some new sharp refinements of Bennett's inequalities.</i> | |
| 13:00-13:20 | N. Samko | abstract # 1111-47-310 |
| | <i>Calderón-Zygmund type singular operators in weighted generalized Morrey spaces.</i> | |
| 13:30-13:50 | Awawdeh | abstract # 1111-47-115 |
| | <i>Degenerate identification problems with smoothing overdetermination.</i> | |
| 14:00-14:20 | Nazir | abstract # 1111-46-737 |
| | <i>Existence the solutions of operator equations and its applications.</i> | |
| 14:30-14:50 | Rocha | abstract # 1111-46-770 |
| | <i>A nonlinear extension and applications of the ADMM method.</i> | |
| 15:00-15:20 | Riva | abstract # 1111-35-777 |
| | <i>Existence results for a nonlinear transmission problem.</i> | |

Rooms M_xyy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q0yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 47 Orthogonal Polynomials and Integrable Systems

Wednesday June 10, 2015 – Room M219

- | | | |
|-------------|---|--|
| 13:00-13:20 | Ana Foulquie
<i>Orthogonal polynomial interpretation of Δ-Toda and Volterra lattices.</i> | abstract # 1111-35-149 |
| 13:30-13:50 | Renato Alvarez-Nodarse
<i>Generating recurrence and ladder-type relations for orthogonal polynomials and special functions with applications to quantum systems.</i> | abstract # 1111-33-318 |
| 14:00-14:20 | Erik Koelink
<i>Matrix-valued orthogonal polynomials and spectral decompositions.</i> | abstract # 1111-33-328 |
| 14:30-14:50 | Henrik Pedersen
<i>Asymptotic expansions and generalized Stieltjes functions.</i> | abstract # 1111-41-225 |
| 15:00-15:20 | Semyon Yakubovich
<i>On the generalized Lebedev index transform.</i> | no abstract |

Friday June 12, 2015 – Room M122

- | | | |
|-------------|---|--|
| 13:00-13:20 | Kerstin Jordaan
<i>Interlacing properties and bounds for zeros of ${}_2\phi_1$ hypergeometric and little q-Jacobi polynomials.</i> | abstract # 1111-33-791 |
| 13:30-13:50 | Alfredo Deano
<i>Asymptotics of kissing polynomials.</i> | abstract # 1111-33-674 |
| 14:00-14:20 | Mirta Castro
<i>Matrix orthogonal polynomials and time-band limiting.</i> | abstract # 1111-15-690 |
| 14:30-14:50 | Franck Wielonsky
<i>Lax pairs and Riemann-Hilbert problems for conjugate conductivity equations.</i> | abstract # 1111-41-699 |
| 15:00-15:20 | Walter Van Assche
<i>Uniqueness of certain solutions of discrete Painlevé II.</i> | abstract # 1111-39-445 |

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M122

- 13:00-13:20 Peter Clarkson [abstract # 1111-33-356](#)
Semi-classical orthogonal polynomials and the Painlevé equations.
- 13:30-13:50 Laurent Baratchart [abstract # 1111-30-297](#)
Exterior asymptotics for weighted Bergman polynomials on the disk.
- 14:00-14:20 Alexander Aptekarev [abstract # 1111-30-159](#)
Multiple orthogonal polynomials and Schrodinger operators on the d -lattice.
- 14:30-14:50 Antonio J. Duran [abstract # 1111-33-344](#)
Some conjectures on Wronskian determinants of orthogonal polynomials.
- 15:00-15:20 T. Augusta Mesquita [abstract # 1111-39-481](#)
Appell two-orthogonal polynomial sequences with respect to a third order differential operator.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 48 Partial Differential Equations: Ambitious Mathematics for Real-life Applications

Wednesday June 10, 2015 – Room M226

- 13:00-13:20 Stefano Spirito [abstract # 1111-76-533](#)
Renormalized solutions of 2D Euler equations.
- 13:30-13:50 Francesco Fanelli [abstract # 1111-35-138](#)
A singular limit problem for viscous compressible fluids in presence of capillarity.
- 14:00-14:50 Raphaël Danchin [abstract # 1111-35-555](#)
Mathematical analysis of a model for radiative flows.
- 15:00-15:20 Cleopatra Cristoforou [abstract # 1111-35-420](#)
From hyperbolic balance laws to differential geometry.

Thursday June 11, 2015 – Room M226

- 13:00-13:20 Mehmet Ersoy [abstract # 1111-35-186](#)
Block-Based Adaptive Mesh Refinement scheme based on numerical density of entropy production for conservation laws and applications.
- 13:30-13:50 Andrea Cangiani [abstract # 1111-65-809](#)
Adaptive numerical solution of nonlinear convection-diffusion problems.
- 14:00-14:50 Konstantina Trivisa [abstract # 1111-35-560](#)
On a nonlinear model for tumor growth with drug application.
- 15:00-15:20 Christiane Helzel [abstract # 1111-65-549](#)
High-order finite volume methods for hyperbolic PDEs on Cartesian grids with embedded boundaries.

Rooms M_{xy} are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q_{0yy} are located in the Chemistry Department on the ground floor; rooms $F-1yy$ are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M226

- 13:00-13:50 Luigi C. Berselli [abstract # 1111-35-443](#)
Multiphase flows in volcanology: modeling, theory and experiment.
- 14:00-14:20 Tomás Morales de Luna [abstract # 1111-76-264](#)
Modeling sediment transport in shallow waters.
- 14:30-15:20 Manuel J. Castro Díaz [abstract # 1111-65-553](#)
Uncertainty quantification on geophysical flows by means of Multi-level Monte Carlo method: some examples concerning tsunami modeling.

Rooms M_xyy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 49

Recent Advances in Variable Exponent Spaces and Non-linear Problems

Wednesday June 10, 2015 – Room M219

- | | | |
|-------------|---|--|
| 9:00-9:20 | Alexander Meskhi
<i>One-sided operators in grand variable exponent Lebesgue spaces.</i> | abstract # 1111-42-181 |
| 9:30-9:50 | Peter Hasto
<i>Maximal operator in generalized Orlicz spaces.</i> | abstract # 1111-46-290 |
| 10:00-10:20 | Petteri Harjulehto
<i>The Riesz potential in generalized Orlicz spaces.</i> | abstract # 1111-46-447 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | Alexi Yu. Karlovich
<i>Maximally modulated Hilbert transform and its applications to pseudodifferential operators on variable Lebesgue spaces.</i> | abstract # 1111-42-218 |
| 11:30-11:50 | Henning Kempka
<i>Variable exponent Lorentz spaces.</i> | no abstract |

Thursday June 11, 2015 – Room M219

- | | | |
|-------------|---|--|
| 13:00-13:20 | Ales Nekvinda
<i>TBA</i> | no abstract |
| 13:30-13:50 | Alexandre Almeida
<i>Atomic decompositions in variable 2-microlocal spaces and applications.</i> | abstract # 1111-46-578 |
| 14:00-14:20 | Alberto Fiorenza
<i>On “essentially variable” variable Lebesgue space problems.</i> | abstract # 1111-46-465 |
| 14:30-14:50 | Yoshihiro Sawano
<i>Hardy spaces with variable exponents and generalized Campanato spaces.</i> | abstract # 1111-42-270 |
| 15:00-15:20 | David Edmunds
<i>Approximation numbers of a Sobolev embedding.</i> | abstract # 1111-41-15 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room M219

- | | | |
|-------------|--|--|
| 13:00-13:20 | Yongqiang Fu
<i>Several kinds of variable exponent spaces.</i> | abstract # 1111-46-96 |
| 13:30-13:50 | Lars Diening
<i>Numerical analysis for variable exponent problems.</i> | abstract # 1111-65-532 |
| 14:00-14:20 | Osvaldo Mendez
<i>The eigenvalue problem for the modular $p(\cdot)$-Laplacian. Convergence analysis.</i> | abstract # 1111-46-315 |
| 14:30-14:50 | Tomasz Adamowicz
<i>Topics in geometric function theory for variable exponent equations.</i> | abstract # 1111-35-419 |
| 15:00-15:20 | Vakhtang Kokilashvili
<i>Approximation problems in the framework of new nonstandard Banach function spaces.</i> | abstract # 1111-42-177 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 50

Recurrence, Mixing and Fluctuations: Statistics of Dynamical Systems

Wednesday June 10, 2015 – Room F-119

- | | | |
|-------------|--|--|
| 9:30-9:50 | Melbourne | abstract # 1111-37-398 |
| | <i>Statistical properties for nonuniformly hyperbolic systems with slow contraction and expansion.</i> | |
| 10:00-10:20 | Holland | abstract # 1111-37-582 |
| | <i>On Extremes, recurrence and record events in dynamical systems.</i> | |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | Dobbs | abstract # 1111-37-323 |
| | <i>Quasistatic dynamical systems.</i> | |
| 11:30-11:50 | Bruin | no abstract |
| | <i>Sharp mixing rates via inducing w.r.t. general return times.</i> | |

Thursday June 11, 2015 – Room F-119

- | | | |
|-------------|--|--|
| 13:30-13:50 | Rodrigues | no abstract |
| | <i>Stochastic stability and the representation of Markov chains by random maps.</i> | |
| 14:00-14:20 | Nicol | abstract # 1111-37-577 |
| | <i>Almost sure invariance principle for sequential and non-stationary dynamical systems.</i> | |
| 14:30-14:50 | Duarte | abstract # 1111-58-757 |
| | <i>Large deviation estimates for Markovian cocycles.</i> | |
| 15:00-15:20 | Varandas | abstract # 1111-37-83 |
| | <i>Specification properties and thermodynamical properties of semigroups.</i> | |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1_yy are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room F-119

- 9:30-9:50 Chazzottes [abstract # 1111-37-249](#)
Approximation for the number of visits to balls for a class of non uniformly hyperbolic systems.
- 10:00-10:20 Climenhaga [abstract # 1111-37-403](#)
Specification, statistical properties, and towers.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Lopes Dias [abstract # 1111-37-382](#)
Hyperbolic attractors for contracting polygonal billiards.
- 11:30-11:50 Aimino [abstract # 1111-37-341](#)
Annealed and quenched central limit theorems for random dynamical systems.

Saturday June 13, 2015 – Room F-120

- 9:30-9:50 Vaienti [abstract # 1111-37-61](#)
Extreme value theory for perturbed and contracting systems.
- 10:00-10:20 Thompson [abstract # 1111-37-581](#)
Unique equilibrium states for the robustly transitive diffeomorphisms of Mañé and Bonatti-Viana.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:20 Jordan [abstract # 1111-37-458](#)
Phase transitions and multifractal analysis.
- 11:30-11:50 Pollicott [abstract # 1111-37-505](#)
Ergodic properties of the Kusuoka measure.

Rooms M_xyy are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀yy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 51 Representation Theory and Quantum Groups

Wednesday June 10, 2015 – Room M029

- | | | |
|-------------|--|--|
| 13:00-13:50 | Burkhard Kuelshammer
<i>The depth of subrings and subgroups.</i> | abstract # 1111-16-110 |
| 14:00-14:20 | Alberto Hernandez
<i>Subgroup depth, algebraic modules and twisted coefficients.</i> | abstract # 1111-20-196 |
| 14:30-14:50 | Sebastian Burciu
<i>On the depth of subgroups and semisimple Hopf subalgebras.</i> | abstract # 1111-16-229 |
| 15:00-15:20 | Peter Schauenburg
<i>Frobenius-Schur indicators in group-theoretical fusion categories.</i> | abstract # 1111-18-733 |

Thursday June 11, 2015 – Room M108

- | | | |
|-------------|--|--|
| 13:00-13:50 | Arvid Siqueland
<i>The noncommutative Serre's theorem.</i> | abstract # 1111-17-117 |
| 14:00-14:20 | Stef Caenepeel
<i>Hopf categories.</i> | abstract # 1111-16-453 |
| 14:30-14:50 | Yorck Sommerhauser
<i>Triviality theorems for Yetter-Drinfel'd Hopf algebras.</i> | abstract # 1111-16-421 |
| 15:00-15:20 | Mio Ivanov
<i>Incidence algebras, deformations and related monoidal structures.</i> | abstract # 1111-16-815 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.

Friday June 12, 2015 – Room M029

- | | | |
|-------------|---|--|
| 13:00-13:50 | Volodomyr Mazorchuk
<i>Extension full subcategories in Lie theory.</i> | abstract # 1111-17-26 |
| 14:00-14:20 | Anthony Giaquinto
<i>Some Properties of Frobenius Lie Algebras.</i> | abstract # 1111-17-645 |
| 14:30-14:50 | Arturo Pianzola
<i>Affine-like algebras related to Grothendieck's dessins d'enfants.</i> | abstract # 1111-17-13 |
| 15:00-15:20 | Alex Stolin
<i>Classification of Quantum Groups and Lie Bialgebras.</i> | abstract # 1111-16-679 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 52 Stochastic Numerical Methods for Non-linear Equations

Wednesday June 10, 2015 – Room F-117

- 9:00-9:20 Lukasz Szpruch [abstract # 1111-60-558](#)
Robbins-Monro algorithm for the approximation of backward stochastic differential equations.
- 9:30-9:50 Tigran Nagapetyan [abstract # 1111-60-128](#)
Variance reduced Monte Carlo path simulation method.
- 10:00-10:20 Arnaud Lionnet [abstract # 1111-65-112](#)
Discretization of monotone BSDEs with polynomial drivers.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Aurelien Alfonsi [abstract # 1111-60-92](#)
Optimal transport bounds between the time-marginals of a multidimensional diffusion and its Euler scheme.

Thursday June 11, 2015 – Room F-117

- 9:00-9:20 Jean-Francois P. Chassagneux [abstract # 1111-65-240](#)
Numerical approximation of switching problems.
- 9:30-9:50 Adrien Richou [abstract # 1111-60-285](#)
Numerical stability analysis of the Euler scheme for Backward Stochastic Differential Equations.
- 10:00-10:20 P. Parczewski [abstract # 1111-60-215](#)
On optimal approximation of Skorohod integrals.
- 10:20-11:00 **Coffee/Tea Break**
- 11:00-11:50 Jose H. Blanchet [abstract # 1111-60-831](#)
Exact Sampling and Conditional Simulation of Max-Stable Processes.

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1_yy are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room F-117

- | | | |
|-------------|--|--|
| 12:30-1:20 | Denis Belomestny
<i>Multilevel Monte Carlo path simulation for weak approximation scheme.</i> | abstract # 1111-65-260 |
| 13:30-13:50 | Xiaolu Tan
<i>On the convergence of monotone scheme for fully nonlinear path-dependent PDE.</i> | abstract # 1111-65-38 |
| 14:00-14:20 | P. Turkedjiev
<i>Importance sampling for variance reduction in linear regression algorithms for BSDE.</i> | abstract # 1111-60-653 |
| 14:30-14:50 | Francisco Bernal
<i>Extrapolation of higher-order numerical integrators for bounded diffusions.</i> | abstract # 1111-60-258 |
| 15:00-15:20 | Gonçalo dos Reis
<i>Customized numerical schemes for FBSDEs.</i> | abstract # 1111-65-292 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
american / european / sociedade
mathematical / mathematical / portuguesa de
society / society / matemática



Special Session 53 Vector Bundles on Projective Varieties

Wednesday June 10, 2015 – Room M006

- | | | |
|-------------|--|--|
| 9:00-9:50 | Enrique Arrondo
<i>Cohomological characterization of vector bundles.</i> | no abstract |
| 10:00-10:20 | Daniele Faenzi
<i>Fano threefolds of genus 10 and Coble cubics.</i> | abstract # 1111-14-678 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:20 | Abel Castorena
<i>Rank two vector bundles with canonical determinant and four sections on algebraic curves.</i> | abstract # 1111-14-44 |
| 11:30-11:50 | Emilia Mezzetti
<i>Linear spaces of matrices of constant rank and vector bundles.</i> | abstract # 1111-14-368 |

Thursday June 11, 2015 – Room M006

- | | | |
|-------------|---|--|
| 13:00-13:50 | Angela Ortega
<i>Higher rank Brill-Noether theory.</i> | abstract # 1111-14-405 |
| 14:00-14:20 | George Hitching
<i>Theta divisors of stable vector bundles with many maximal subbundles.</i> | abstract # 1111-14-90 |
| 14:30-14:50 | Ada Boralevi
<i>Orthogonal instantons and skew-Hamiltonian matrices.</i> | abstract # 1111-14-317 |
| 15:00-15:20 | Elena Angelini
<i>Torelli type results for logarithmic bundles of arrangements in \mathbb{P}^n.</i> | abstract # 1111-14-409 |

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.

Saturday June 13, 2015 – Room M006

9:00-9:50	Alexander Schmitt <i>Quiver sheaves.</i>	abstract # 1111-14-530
10:00-10:20	Pedro Macias Marques <i>Monads over projective varieties.</i>	abstract # 1111-14-161
10:20-11:00	Coffee/Tea Break	
11:00-11:20	Joan Pons-Llopis <i>The representation type of a projective variety.</i>	abstract # 1111-14-573
11:30-11:50	Laura Costa <i>Ulrich bundles on Grassmannians.</i>	abstract # 1111-14-825

Rooms M_xy_y are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q₀y_y are located in the Chemistry Department on the ground floor; rooms F-1y_y are located in the Physics Department, basement floor.

List of presenters by last name

Click on bolded page numbers for the corresponding program segment.

Abreu – Special Session 22, abstract 1111-58-304, **39**
Accinelli, Elvio – Special Session 19, abstract 1111-91-193, **34**
Adamowicz, Tomasz – Special Session 49, abstract 1111-35-419, **89**
Aganagic, Mina – Special Session 35, abstract 1111-81-821, **62**
Agarwal, Nikita – Special Session 18, abstract 1111-37-569, **33**
Aguiar, Maira – Special Session 37, abstract 1111-37-660, **65**
Aguiar, Manuela – Special Session 26, abstract 1111-34-551, **46**
Aguiar, Marcelo – Special Session 2, abstract 1111-18-502, **3**
Aimino – Special Session 50, abstract 1111-37-341, **91**
Alama, Reinhard Kahle/Jesse – Special Session 45, abstract 1111-03-343, **81**
Albuquerque, Luis Gonzaga – Special Session 44, abstract 1111-37-516, **80**
Alexandrov, Sergei – Special Session 25, abstract 1111-81-220, **43**
Alfonsi, Aurelien – Special Session 52, abstract 1111-60-92, **94**
Ali, Hegagi Mohamed – Special Session 21, abstract 1111-49-769, **38**
Almeida, Alexandre – Special Session 49, abstract 1111-46-578, **88**
Almeida, João P. – Special Session 19, abstract 1111-37-703, **34**
Almeida, Jorge – Special Session 4, abstract 1111-20-811, **7**
Almeida, Ricardo – Special Session 21, abstract 1111-49-18, **38**
Alonso, Leo – Special Session 32, abstract 1111-14-753, **57**
Alpay, Daniel – Special Session 9, abstract 1111-46-130, **16**
Alsaody, Seidon – Special Session 42, abstract 1111-17-523, **76**
Álvarez-López, Alberto – Special Session 19, abstract 1111-91-618, **34**
Alvarez-Nodarse, Renato – Special Session 47, abstract 1111-33-318, **84**
Ambrozio – Special Session 22, no abstract, **39**
Ammi, Moulay Rchid Sidi – Special Session 21, abstract 1111-39-28, **37**
Amorim, Paulo – Special Session 33, abstract 1111-35-94, **59**
Angelini, Elena – Special Session 53, abstract 1111-14-409, **96**
Anjos, S. – Special Session 16, abstract 1111-22-265, **29**
Antolin, Yago – Special Session 1, abstract 1111-20-488, **2**
Antoniou, Stathis – Special Session 35, no abstract, **63**
Aptekarev, Alexander – Special Session 47, abstract 1111-30-159, **85**
Arafa, Nagwa Mohamed – Special Session 21, abstract 1111-49-806, **37**
Araújo, João Jorge – Special Session 1, abstract 1111-05-529, **1**
Araújo, João Jorge – Special Session 4, abstract 1111-20-534, **7**
Arias, M. Laura – Special Session 34, abstract 1111-47-309, **60**
Armstrong, Scott – Special Session 31, no abstract, **56**
Arrondo, Enrique – Special Session 53, no abstract, **96**
Aschieri, Paolo – Special Session 28, abstract 1111-53-742, **50**
Auinger, Karl – Special Session 4, abstract 1111-20-165, **7**
Awawdeh – Special Session 46, abstract 1111-47-115, **83**

Baaz, Matthias – Special Session 45, abstract 1111-03-684, **81**
Bacaer, Nicolas – Special Session 37, abstract 1111-92-281, **65**
Banasiak, Jacek – Special Session 10, abstract 1111-35-466, **19**
Baranski, Krzysztof – Special Session 30, abstract 1111-37-122, **53**

Baratchart, Laurent – Special Session 47, abstract 1111-30-297, **85**
 Barchiesi, Marco – Special Session 36, abstract 1111-49-596, **64**
 Barrett, John – Special Session 35, abstract 1111-81-823, **62**
 Barrio, Roberto – Special Session 26, abstract 1111-37-120, **45**
 Barrow-Green, J. – Special Session 29, abstract 1111-01-427, **52**
 Barucci, Valentina – Special Session 13, abstract 1111-13-183, **24**
 Basor, Estelle – Special Session 17, abstract 1111-47-785, **32**
 Bastos – Special Session 46, abstract 1111-47-384, **82**
 Bastos, Nuno R. O. – Special Session 21, abstract 1111-41-56, **37**
 Bateman, Michael – Special Session 23, abstract 1111-05-717, **40**
 Batoreo, M. – Special Session 16, abstract 1111-53-433, **29**
 Bebiano, Natália – Special Session 34, abstract 1111-47-102, **60**
 Beheshti, S. – Special Session 38, abstract 1111-83-476, **68**
 Beig, Robert – Special Session 38, abstract 1111-74-136, **68**
 Beil, Sabine – Special Session 3, abstract 1111-05-789, **5**
 Beliakova, Anna – Special Session 8, abstract 1111-22-140, **14**
 Bell, Jason P. – Special Session 11, abstract 1111-16-148, **21**
 Belomestny, Denis – Special Session 52, abstract 1111-65-260, **95**
 Benayadi, Said – Special Session 42, no abstract, **76**
 Bender, Carl M. – Special Session 15, abstract 1111-30-111, **28**
 Bennett, Jonathan – Special Session 23, abstract 1111-44-632, **40**
 Bentz, Wolfram – Special Session 4, abstract 1111-20-572, **8**
 Berenstein, Arkady – Special Session 11, abstract 1111-16-255, **20**
 Bernal, Francisco – Special Session 52, abstract 1111-60-258, **95**
 Bernardi, Alessandra – Special Session 12, abstract 1111-14-257, **23**
 Bernstein, Swanhild – Special Session 9, abstract 1111-30-444, **17**
 Berselli, Luigi C. – Special Session 48, abstract 1111-35-443, **87**
 Bichon, Julien – Special Session 2, abstract 1111-16-57, **3**
 Bick, Chris – Special Session 18, abstract 1111-37-738, **33**
 Bidaut-Véron, Marie-Françoise – Special Session 43, no abstract, **77**
 Bini, Gilberto – Special Session 20, abstract 1111-14-152, **36**
 Blanchet, Christian – Special Session 8, abstract 1111-57-415, **15**
 Blanchet, Jose H. – Special Session 52, abstract 1111-60-831, **94**
 Blanco, M. – Special Session 29, abstract 1111-01-84, **51**
 Bleak, C. – Special Session 40, abstract 1111-20-747, **72**
 Bocklandt, Raf – Special Session 11, abstract 1111-16-508, **20**
 Böhm, Gabriella – Special Session 2, abstract 1111-16-11, **4**
 Boij, Mats – Special Session 12, abstract 1111-13-291, **22**
 Bonheure, Denis – Special Session 43, abstract 1111-35-513, **77**
 Boralevi, Ada – Special Session 53, abstract 1111-14-317, **96**
 Bouchitte, Guy – Special Session 31, abstract 1111-35-380, **55**
 Boudaoud, Abdelmadjid – Special Session 44, abstract 1111-03-416, **79**
 Bourdin, Loïc – Special Session 21, abstract 1111-49-80, **37**
 Braumann, Carlos – Special Session 5, abstract 1111-60-10, **9**
 Briand, Emmanuel – Special Session 3, abstract 1111-05-477, **6**
 Britton, Nicholas F. – Special Session 37, abstract 1111-92-724, **65**
 Brough, T. – Special Session 40, abstract 1111-20-773, **71**
 Brown, Ken – Special Session 11, abstract 1111-16-203, **21**
 Brugallé, Erwan – Special Session 20, abstract 1111-51-131, **35, 36**
 Bruin – Special Session 50, no abstract, **90**

Bruns, Winfried – Special Session 13, abstract 1111-20-114, **24**
 Bryden, John – Special Session 35, no abstract, **62**
 Brzezinski, Tomasz – Special Session 2, abstract 1111-16-16, **4**
 Buchweitz, Ragnar – Special Session 32, abstract 1111-13-611, **57**
 Budzynski, Piotr – Special Session 34, abstract 1111-47-241, **61**
 Bulacu, Daniel – Special Session 2, abstract 1111-16-424, **3**
 Burciu, Sebastian – Special Session 51, abstract 1111-16-229, **92**
 Burns, Anne Mendes – Special Session 39, abstract 1111-00-77, **70**
 Burns, Daniel – Special Session 15, abstract 1111-58-820, **28**

Caenepeel, Stef – Special Session 51, abstract 1111-16-453, **92**
 Cain, Alan J. – Special Session 4, abstract 1111-20-353, **7**
 Calvo, Carlos Soneira – Special Session 42, abstract 1111-17-719, **76**
 Câmara – Special Session 46, abstract 1111-47-247, **82**
 Campillo, Fabien – Special Session 5, abstract 1111-60-381, **9**
 Cangiani, Andrea – Special Session 48, abstract 1111-65-809, **86**
 Cañizo, José – Special Session 10, abstract 1111-82-73, **18**
 Cannas da Silva – Special Session 22, abstract 1111-53-295, **39**
 Cano Torres, Felipe – Special Session 14, no abstract, **26**
 Carbery, Anthony – Special Session 23, abstract 1111-42-672, **41**
 Carita, Graça – Special Session 36, abstract 1111-35-646, **64**
 Carlotto – Special Session 22, abstract 1111-53-559, **39**
 Carneiro, Emanuel – Special Session 23, abstract 1111-42-665, **40**
 Carrasquel-Vera, Jose Gabriel – Special Session 6, abstract 1111-55-550, **11**
 Carvalho – Special Session 46, abstract 1111-47-602, **82**
 Carvalho, Ana R. – Special Session 37, abstract 1111-92-238, **66**
 Carvalho, Sónia – Special Session 34, abstract 1111-15-202, **60**
 Casals, R. – Special Session 16, abstract 1111-53-619, **30**
 Casas, J. M. – Special Session 42, abstract 1111-17-216, **75**
 Casnati, Gianfranco – Special Session 12, abstract 1111-13-175, **22**
 Casteels, Karel – Special Session 11, abstract 1111-16-525, **20**
 Castorena, Abel – Special Session 53, abstract 1111-14-44, **96**
 Castro, Luis – Special Session 17, abstract 1111-47-235, **31**
 Castro, Mirta – Special Session 47, abstract 1111-15-690, **84**
 Cattaneo, Alberto S. – Special Session 28, abstract 1111-55-404, **50**
 Ceccherini-Silberstein, T. – Special Session 40, abstract 1111-20-630, **71**
 Ceken, Secil – Special Session 11, abstract 1111-16-153, **20**
 Celikbas, Ela – Special Session 12, abstract 1111-13-326, **22**
 Chassagneux, Jean-Francois P. – Special Session 52, abstract 1111-65-240, **94**
 Chazzottes – Special Session 50, abstract 1111-37-249, **91**
 Cheritat, Arnaud – Special Session 30, abstract 1111-37-72, **54**
 Cherubini, Anna – Special Session 18, no abstract, **33**
 Cho, Y. H. – Special Session 16, abstract 1111-51-483, **30**
 Christensen, Lars Winther – Special Session 12, abstract 1111-13-173, **23**
 Cichon, Dariusz – Special Session 34, abstract 1111-47-366, **60**
 Ciobanu, Laura I – Special Session 1, abstract 1111-20-182, **2**
 Cirio, Lucio Simone – Special Session 28, abstract 1111-16-562, **49**
 Clarkson, Peter – Special Session 47, abstract 1111-33-356, **85**
 Climenhaga – Special Session 50, abstract 1111-37-403, **91**
 Cnudde, Lander – Special Session 9, abstract 1111-30-132, **16**

Codeço, Claudia Torres – Special Session 37, abstract 1111-92-399, **65**
 Coelho, Flávio Codeço – Special Session 37, abstract 1111-92-322, **66**
 Coelho, Isabel – Special Session 43, abstract 1111-34-749, **78**
 Collier, Brian – Special Session 27, abstract 1111-53-373, **48**
 Conca, Aldo – Special Session 12, abstract 1111-13-172, **22**
 Constantinescu, Alex – Special Session 32, abstract 1111-13-743, **57**
 Cooper, Benjamin – Special Session 8, abstract 1111-18-234, **14**
 Córdoba, Antonio – Special Session 23, abstract 1111-42-316, **40**
 Costa, Armindo – Special Session 6, abstract 1111-55-531, **11**
 Costa, João L. – Special Session 38, abstract 1111-35-354, **67**
 Costa, Laura – Special Session 53, abstract 1111-14-825, **97**
 Couceiro, Miguel – Special Session 1, abstract 1111-06-53, **1**
 Couso-Santamaria, Ricardo – Special Session 25, abstract 1111-40-379, **43**
 Cremonesi, Stefano – Special Session 25, abstract 1111-81-408, **43**
 Crispin Quiñonez, Veronica – Special Session 13, abstract 1111-13-300, **24**
 Cristoforou, Cleopatra – Special Session 48, abstract 1111-35-420, **86**
 Curto, Raul – Special Session 34, abstract 1111-47-423, **60**

D’Anna, Marco – Special Session 13, abstract 1111-13-267, **24**
 Danchin, Raphaël – Special Session 48, abstract 1111-35-555, **86**
 Daviaud, Laure – Special Session 4, abstract 1111-68-546, **7**
 Davoli, Elisa – Special Session 31, abstract 1111-49-60, **55**
 Davoli, Elisa – Special Session 36, abstract 1111-49-64, **64**
 Davydov, Alexei – Special Session 2, abstract 1111-16-524, **3**
 Dawes, Jonathan – Special Session 26, abstract 1111-37-752, **45**
 De Comité, Francesco – Special Session 39, abstract 1111-51-79, **69**
 De Visscher, Maud – Special Session 41, abstract 1111-20-54, **73**
 Deano, Alfredo – Special Session 47, abstract 1111-33-674, **84**
 Delattre, Maud – Special Session 5, abstract 1111-62-239, **9**
 Delgado, Manuel – Special Session 13, abstract 1111-13-830, **25**
 Dey, Anindya – Special Session 25, abstract 1111-81-439, **44**
 Di Plinio, Francesco – Special Session 23, abstract 1111-42-609, **40**
 Dias, Ana – Special Session 18, abstract 1111-37-561, **33**
 Díaz, Manuel J. Castro – Special Session 48, abstract 1111-65-553, **87**
 Didenko, Victor – Special Session 17, abstract 1111-47-288, **32**
 Diener, Marc – Special Session 44, abstract 1111-60-793, **79**
 Dienes, Lars – Special Session 49, abstract 1111-65-532, **89**
 Ding, Chao – Special Session 9, abstract 1111-32-392, **17**
 Dinis, Bruno – Special Session 44, abstract 1111-03-584, **79**
 Diogo, L. – Special Session 16, abstract 1111-53-667, **30**
 Dipierro, Serena – Special Session 43, abstract 1111-35-170, **78**
 Dobbs – Special Session 50, abstract 1111-37-323, **90**
 Domingues, J.C. – Special Session 29, abstract 1111-01-480, **51**
 Domkos, Matyas – Special Session 11, abstract 1111-16-472, **21**
 Donkin, Stephen – Special Session 41, abstract 1111-20-702, **74**
 Doutor, Paulo – Special Session 37, abstract 1111-92-605, **66**
 Dritschel, Michael – Special Session 34, abstract 1111-47-803, **60**
 Duarte – Special Session 50, abstract 1111-58-757, **90**
 Duarte, Rui – Special Session 3, abstract 1111-05-810, **5**
 Dudin, Bashar – Special Session 20, abstract 1111-14-418, **35**

Duduchava – Special Session 46, abstract 1111-35-198, **82**
 Duduchava, Roland – Special Session 34, abstract 1111-45-194, **60**
 Dumitrescu, Sorin Mihail – Special Session 14, abstract 1111-53-124, **26**
 Dunham, Douglas – Special Session 39, abstract 1111-51-492, **69**
 Duran, Antonio J. – Special Session 47, abstract 1111-33-344, **85**
 Dye, H. – Special Session 35, abstract 1111-57-81, **63**
 Dziubanski, Jacek – Special Session 23, abstract 1111-42-732, **41**

Edmunds, David – Special Session 49, abstract 1111-41-15, **88**
 Ehrig, Michael – Special Session 8, abstract 1111-16-798, **15**
 Eliahou, Shalom – Special Session 13, abstract 1111-13-41, **24**
 Elias, Juan – Special Session 12, abstract 1111-13-167, **23**
 Ellis, Graham – Special Session 6, abstract 1111-55-338, **11**
 Emami, Aram – Special Session 3, abstract 1111-05-263, **5**
 Epstein, Adam – Special Session 30, abstract 1111-37-319, **54**
 Ersoy, Mehmet – Special Session 48, abstract 1111-35-186, **86**
 Esquivel, Manuel – Special Session 5, abstract 1111-60-761, **9**
 Evdoridou, Vasiliki – Special Session 30, abstract 1111-37-603, **54**

Faenzi, Daniele – Special Session 53, abstract 1111-14-678, **96**
 Fagella, Núria – Special Session 30, abstract 1111-37-314, **54**
 Fajman, David – Special Session 38, abstract 1111-83-744, **67**
 Fanelli, Francesco – Special Session 48, abstract 1111-35-138, **86**
 Farina, Alberto – Special Session 43, abstract 1111-35-212, **77**
 Feireisl, Eduard – Special Session 33, abstract 1111-35-345, **59**
 Fernandes, Claudio – Special Session 17, abstract 1111-47-647, **31**
 Ferreira, Milton – Special Session 9, abstract 1111-43-615, **17**
 Ferreira, Rita – Special Session 31, abstract 1111-35-442, **56**
 Ferreira, Susana Carvalho – Special Session 27, abstract 1111-14-784, **48**
 Ferri, Massimo – Special Session 6, abstract 1111-55-221, **11**
 Field, Michael J. – Special Session 39, abstract 1111-37-93, **70**
 Field, Mike – Special Session 18, abstract 1111-37-735, **33**
 Field, Mike J. – Special Session 26, abstract 1111-37-105, **45**
 Figueiredo, F. – Special Session 29, abstract 1111-01-490, **51**
 Fine – Special Session 22, abstract 1111-58-116, **39**
 Fiorenza, Alberto – Special Session 49, abstract 1111-46-465, **88**
 Fioresi, Rita – Special Session 11, abstract 1111-03-252, **20**
 Fischer, Ilse – Special Session 3, abstract 1111-05-244, **6**
 Flock, Taryn – Special Session 23, abstract 1111-42-662, **40**
 Fonseca, Irene – Special Session 36, abstract 1111-49-69, **64**
 Fontelos, Marco A. – Special Session 10, abstract 1111-35-144, **18**
 Foschi, Damiano – Special Session 23, no abstract, **41**
 Foulquie, Ana – Special Session 47, abstract 1111-35-149, **84**
 Fourie, Jan – Special Session 34, abstract 1111-46-456, **61**
 Franco, Nuno – Special Session 35, abstract 1111-37-526, **62**
 Frégier, Yaël – Special Session 28, abstract 1111-18-564, **50**
 Freitas, Pedro J. – Special Session 39, abstract 1111-01-293, **70**
 Fruchard, Augustin – Special Session 44, abstract 1111-39-367, **80**
 Fryer, Sian – Special Session 11, abstract 1111-16-364, **21**
 Fu, Yongqiang – Special Session 49, abstract 1111-46-96, **89**

Gadde, Abhijit – Special Session 25, abstract 1111-81-435, **44**

Garcia-Calines, Jose Manuel – Special Session 6, abstract 1111-55-614, **11**

Garcia-Fernandez, Mario – Special Session 27, abstract 1111-53-591, **48**

García-García, J. I. – Special Session 13, abstract 1111-20-710, **24**

García-Martínez, Xabier – Special Session 42, abstract 1111-17-538, **76**

Garcia-Prada, Oscar – Special Session 27, abstract 1111-51-607, **47**

Garijo, Antonio – Special Session 30, abstract 1111-37-536, **54**

Gaspar, Raquel M. – Special Session 5, abstract 1111-60-554, **9**

Ge, Jun – Special Session 35, abstract 1111-57-287, **63**

Geiges, H. – Special Session 16, abstract 1111-53-125, **30**

Geroldinger, Alfred – Special Session 13, abstract 1111-20-552, **25**

Giaquinto, Anthony – Special Session 51, abstract 1111-17-645, **93**

Gil, Juan – Special Session 24, no abstract, **42**

Ginzburg, V. – Special Session 16, abstract 1111-53-429, **29**

Girão, Pedro Martins – Special Session 38, abstract 1111-83-362, **67**

Giri, Ankik Kumar – Special Session 10, abstract 1111-35-756, **19**

Girouard, Alexandre – Special Session 24, abstract 1111-58-716, **42**

Gloria, Antoine – Special Session 31, abstract 1111-35-412, **55**

Glutsyuk, Alexey – Special Session 14, abstract 1111-37-336, **27**

Gobet, Thomas – Special Session 8, abstract 1111-16-448, **14**

Goldstine, Susan – Special Session 39, abstract 1111-00-468, **69**

Golubitsky, Marty – Special Session 18, abstract 1111-34-575, **33**

Gomes, Gabriela – Special Session 37, abstract 1111-92-43, **65**

Gomes, Gracinda M.S. – Special Session 4, abstract 1111-20-489, **7**

Gomes, João – Special Session 25, abstract 1111-83-261, **43**

Goncharuk, Nataliya – Special Session 14, abstract 1111-30-276, **27**

Gonzalez, Ramon – Special Session 2, abstract 1111-18-14, **4**

Goodrich, Christopher S. – Special Session 21, abstract 1111-39-25, **38**

Gordon, Carolyn – Special Session 24, abstract 1111-58-714, **42**

Gould, Victoria – Special Session 4, abstract 1111-20-422, **8**

Gouveia, M. Celeste – Special Session 34, abstract 1111-15-588, **61**

Gouveia, Maria João – Special Session 1, abstract 1111-06-540, **1**

Grabowski, Jan E. – Special Session 11, abstract 1111-17-272, **20**

Graefe, Eva-Maria – Special Session 15, abstract 1111-81-613, **28**

Gran, Marino – Special Session 7, abstract 1111-18-612, **12**

Grant, H. – Special Session 29, abstract 1111-01-467, **52**

Gray, J. – Special Session 29, abstract 1111-01-361, **52**

Gray, Robert D. – Special Session 4, abstract 1111-20-586, **8**

Grigorchuk, R. – Special Session 40, abstract 1111-20-199, **71**

Grinfeld, Michael – Special Session 33, abstract 1111-35-570, **59**

Gryak, Jonathan – Special Session 1, abstract 1111-00-284, **1**

Gukov, Sergei – Special Session 25, no abstract, **43**

Gukov, Sergei – Special Session 35, abstract 1111-54-639, **62**

Gutiérrez-García, Javier – Special Session 7, abstract 1111-06-568, **12**

Haglund, Jim – Special Session 3, abstract 1111-05-580, **5**

Hales, Thomas – Special Session 45, abstract 1111-03-637, **81**

Hall, Brian – Special Session 15, no abstract, **28**

Hariharan, Ananthanarayan – Special Session 12, abstract 1111-13-375, **22**

Harjulehto, Petteri – Special Session 49, abstract 1111-46-447, **88**

Hasto, Peter – Special Session 49, abstract 1111-46-290, **88**
 Hayrapetyan, Gurgen – Special Session 36, abstract 1111-35-802, **64**
 Helmers, Michael – Special Session 10, abstract 1111-82-635, **18**
 Helzel, Christiane – Special Session 48, abstract 1111-65-549, **86**
 Henriksen, Christian – Special Session 30, abstract 1111-37-822, **53**
 Henriques, Ines B. – Special Session 12, abstract 1111-13-349, **22**
 Herbera, Dolors – Special Session 32, abstract 1111-13-617, **58**
 Hermiller, Susan – Special Session 1, abstract 1111-20-599, **2**
 Hernandez, Alberto – Special Session 51, abstract 1111-20-196, **92**
 Hilden, Hugh M. – Special Session 35, abstract 1111-57-19, **62**
 Hind, R. – Special Session 16, abstract 1111-53-727, **30**
 Hitching, George – Special Session 53, abstract 1111-14-90, **96**
 Holland – Special Session 50, abstract 1111-37-582, **90**
 Hollands, Lotte – Special Session 25, abstract 1111-81-227, **44**
 Holm, Henrik – Special Session 32, abstract 1111-13-91, **58**
 Homburg, Ale Jan – Special Session 26, abstract 1111-37-340, **46**
 Huerta, John – Special Session 28, abstract 1111-18-592, **49**
 Hughes, Kevin – Special Session 23, abstract 1111-42-242, **40**

Ibáñez, Santiago – Special Session 26, abstract 1111-34-545, **45**
 Ichim, Bogdan – Special Session 13, abstract 1111-05-676, **24**
 Iggidr, Abderrahman – Special Session 37, abstract 1111-93-246, **65**
 Il'yashenko, Yulij – Special Session 14, abstract 1111-34-644, **26**
 Iliopoulou, Marina – Special Session 23, abstract 1111-05-535, **41**
 Iovanov, Mio – Special Session 51, abstract 1111-16-815, **92**

Jablonski, Zenon – Special Session 34, abstract 1111-47-282, **60**
 James, François – Special Session 33, abstract 1111-35-683, **59**
 Janda, Felix – Special Session 20, abstract 1111-14-275, **35**
 Jelisiejew, Joachim – Special Session 12, abstract 1111-13-108, **22**
 Jensen, Anders Christian – Special Session 5, no abstract, **9**
 Jockers, Hans – Special Session 25, abstract 1111-81-685, **44**
 Jones, Mathew – Special Session 34, abstract 1111-47-776, **61**
 Jones, Peter R. – Special Session 4, abstract 1111-20-474, **8**
 Jordaan, Kerstin – Special Session 47, abstract 1111-33-791, **84**
 Jordan – Special Session 50, abstract 1111-37-458, **91**
 Jordan, David A. – Special Session 11, abstract 1111-16-296, **20**
 Justino, Júlia – Special Session 44, abstract 1111-15-371, **79**

Kaehler, Uwe – Special Session 9, abstract 1111-44-616, **16**
 Kahle, Matthew – Special Session 6, abstract 1111-55-248, **11**
 Kahrobaei, Delaram – Special Session 1, abstract 1111-00-197, **1**
 Kamada, N. – Special Session 35, abstract 1111-57-52, **63**
 Kamada, S. – Special Session 35, abstract 1111-57-51, **63**
 Kambites, M. – Special Session 40, abstract 1111-20-509, **71**
 Kambites, Mark – Special Session 4, abstract 1111-20-259, **8**
 Kaplan, Craig S. – Special Session 39, abstract 1111-51-277, **69**
 Karlovich, A. – Special Session 46, abstract 1111-47-217, **82**
 Karlovich, Alexi Yu. – Special Session 49, abstract 1111-42-218, **88**
 Karlovich, Yu. – Special Session 46, abstract 1111-47-493, **82**
 Karlovich, Yuri – Special Session 17, abstract 1111-47-496, **31**

Karpinska, Boguslawa – Special Session 30, abstract 1111-37-121, **53**
 Kastner, A. – Special Session 35, abstract 1111-54-154, **63**
 Kauffman, L. H. – Special Session 35, abstract 1111-57-156, **63**
 Keen, Linda – Special Session 30, abstract 1111-37-321, **53**
 Kempka, Henning – Special Session 49, no abstract, **88**
 Kisaka, Masashi – Special Session 30, abstract 1111-37-746, **54**
 Kleshchev, Alexander – Special Session 41, no abstract, **73**
 Klíma, Ondřej – Special Session 4, abstract 1111-20-512, **7**
 Klimann, I. – Special Session 40, abstract 1111-20-214, **71**
 Knobloch, Jürgen – Special Session 26, abstract 1111-37-141, **45**
 Koelink, Erik – Special Session 47, abstract 1111-33-328, **84**
 Kokilashvili, Vakhtang – Special Session 49, abstract 1111-42-177, **89**
 Konjik, Sanja – Special Session 21, abstract 1111-35-21, **37**
 Kovac, Vjekoslav – Special Session 23, abstract 1111-42-739, **41**
 Kravchenko, R. – Special Session 40, abstract 1111-20-786, **71**
 Kreisbeck, Carolin – Special Session 31, abstract 1111-49-332, **55**
 Krishnan, Sanjeevi – Special Session 6, abstract 1111-55-606, **11**
 Krokhin, Andrei – Special Session 1, abstract 1111-08-401, **1**
 Kubitzke, Martina – Special Session 32, abstract 1111-13-518, **57**
 Kuelshammer, Burkhard – Special Session 51, abstract 1111-16-110, **92**
 Kulshammer, Julian – Special Session 41, abstract 1111-16-372, **73**
 Kus, Deniz – Special Session 3, abstract 1111-05-137, **5**

Labouriau, Isabel – Special Session 26, no abstract, **45**
 Ladra, Manuel – Special Session 42, abstract 1111-17-537, **76**
 Lamb, Wilson – Special Session 10, abstract 1111-47-506, **19**
 Lavicka, Roman – Special Session 9, abstract 1111-35-327, **16**
 Lawton, Sean – Special Session 27, abstract 1111-14-65, **47**
 Lebre, Amarino – Special Session 17, abstract 1111-47-708, **32**
 Lecoutre, Cesar – Special Session 11, abstract 1111-16-557, **21**
 Lecouvey, Cedric – Special Session 3, abstract 1111-05-185, **5**
 LeFloch, Philippe G. – Special Session 33, abstract 1111-35-604, **59**
 LeFloch, Philippe G. – Special Session 38, abstract 1111-83-600, **67**
 Legendre, Eveline – Special Session 24, abstract 1111-58-712, **42**
 Lejay, Antoine – Special Session 5, abstract 1111-60-597, **10**
 Len, Yoav – Special Session 20, abstract 1111-14-67, **35**
 Lenagan, Tom – Special Session 11, abstract 1111-16-150, **20**
 Leoni, Giovanni – Special Session 36, abstract 1111-35-24, **64**
 Lewark, Lukas – Special Session 8, abstract 1111-57-634, **15**
 Li, Qionglin – Special Session 27, abstract 1111-53-519, **48**
 Lian, Pan – Special Session 9, abstract 1111-42-237, **16**
 Lie, Victor – Special Session 23, abstract 1111-05-812, **40**
 Lionnet, Arnaud – Special Session 52, abstract 1111-65-112, **94**
 Liu, Veny – Special Session 4, abstract 1111-20-624, **8**
 Livine, Matvei – Special Session 9, abstract 1111-30-359, **17**
 Lobb, Andrew – Special Session 8, abstract 1111-57-547, **15**
 Lobry, Claude E. – Special Session 44, abstract 1111-34-767, **80**
 Logares, Marina – Special Session 27, abstract 1111-14-302, **47**
 Lohse, Alexander – Special Session 26, abstract 1111-34-517, **46**
 Lomp, Christian – Special Session 42, abstract 1111-16-527, **76**

Lopes Dias – Special Session 50, abstract 1111-37-382, **91**
 Lopes, Pedro – Special Session 35, no abstract, **63**
 López, Consuelo Martínez – Special Session 42, abstract 1111-17-383, **75**
 Louhichi, Issam – Special Session 34, abstract 1111-47-734, **61**
 Luna, Tomás Morales de – Special Session 48, abstract 1111-76-264, **87**

Macarini, L. – Special Session 16, abstract 1111-37-661, **29**
 Macchia, Antonio – Special Session 32, abstract 1111-13-598, **57**
 Machado, Penousal – Special Session 39, abstract 1111-68-748, **69**
 Macintyre, Angus John – Special Session 45, abstract 1111-03-696, **81**
 Mackaay, Marco – Special Session 41, abstract 1111-18-126, **73**
 MacNamara, Peter – Special Session 3, abstract 1111-05-585, **5**
 Maestriperi, Alejandra – Special Session 34, abstract 1111-47-395, **60**
 Malheiro, Teresa – Special Session 34, abstract 1111-47-205, **61**
 Malinowska, Agnieszka B. – Special Session 21, abstract 1111-49-454, **37**
 Mamede, Ricardo – Special Session 3, abstract 1111-05-30, **5**
 Mammeri, Youcef – Special Session 33, abstract 1111-35-515, **59**
 Marchetti, Charles – Special Session 5, abstract 1111-60-764, **10**
 Marques, Jorge – Special Session 43, abstract 1111-35-370, **78**
 Marques, Pedro Macias – Special Session 32, abstract 1111-13-750, **58**
 Marques, Pedro Macias – Special Session 53, abstract 1111-14-161, **97**
 Marreiros, Rui – Special Session 34, abstract 1111-47-539, **61**
 Marsh, Robert – Special Session 41, abstract 1111-16-482, **74**
 Martí, David – Special Session 30, abstract 1111-37-687, **53**
 Martínez, Javier – Special Session 27, abstract 1111-14-46, **47**
 Martins-Ferreira, Nelson – Special Session 7, abstract 1111-06-693, **12**
 Martins, A.P. – Special Session 29, abstract 1111-62-378, **51**
 Martins, Filipe – Special Session 19, abstract 1111-92-208, **34**
 Martins, José – Special Session 19, abstract 1111-91-484, **34**
 Martins, José – Special Session 37, abstract 1111-91-486, **66**
 Martins, Natalia – Special Session 21, abstract 1111-37-155, **37**
 Mascarenhas, Helena – Special Session 17, abstract 1111-46-654, **31**
 Mastnak, Mitja – Special Session 2, abstract 1111-17-273, **3**
 Masuda, Ariane – Special Session 1, abstract 1111-20-495, **2**
 Matias, José – Special Session 36, no abstract, **64**
 Mayr, Peter – Special Session 1, abstract 1111-08-563, **1**
 Mazorchuk, Volodomyr – Special Session 51, abstract 1111-17-26, **93**
 Mazorchuk, Volodymyr – Special Session 41, abstract 1111-18-27, **73**
 Melbourne – Special Session 50, abstract 1111-37-398, **90**
 Mendes, Sérgio – Special Session 34, abstract 1111-47-348, **61**
 Mendez, Osvaldo – Special Session 49, abstract 1111-46-315, **89**
 Merzon – Special Session 46, abstract 1111-35-31, **82**
 Mesablishvili, Bachuki – Special Session 2, abstract 1111-18-118, **3**
 Meskhi, Alexander – Special Session 49, abstract 1111-42-181, **88**
 Mesquita, T. Augusta – Special Session 47, abstract 1111-39-481, **85**
 Meusbürger, C. – Special Session 35, abstract 1111-81-628, **62**
 Mezzetti, Emilia – Special Session 53, abstract 1111-14-368, **96**
 Mikovic, Aleksandar – Special Session 28, no abstract, **50**
 Milheiro-Oliveira, Paula – Special Session 5, abstract 1111-60-736, **10**
 Miranda, E. – Special Session 16, abstract 1111-53-113, **29**

Mirek, Mariusz – Special Session 23, abstract 1111-42-626, **40**
 Montaner, Fernando – Special Session 42, abstract 1111-17-461, **76**
 Morandotti, Marco – Special Session 31, abstract 1111-35-50, **55**
 Morandotti, Marco – Special Session 36, no abstract, **64**
 Moreira, Célia – Special Session 18, abstract 1111-37-187, **33**
 Moreira, Fernando J. – Special Session 44, abstract 1111-37-759, **79**
 Moreno-Rocha, Mónica – Special Session 30, abstract 1111-30-396, **53**
 Morton, Jeffrey C. – Special Session 28, abstract 1111-18-576, **49**
 Mota, C.A. – Special Session 29, abstract 1111-01-805, **52**
 Moyano-Fernández, Julio-José – Special Session 13, abstract 1111-13-827, **24**
 Muñoz, Vicente – Special Session 27, no abstract, **47**
 Murray, Ryan W. – Special Session 10, abstract 1111-35-437, **18**
 Murthy, Sameer – Special Session 25, abstract 1111-11-339, **43**
 Muscalu, Camil – Special Session 23, abstract 1111-42-394, **41**

Nagapetyan, Tigran – Special Session 52, abstract 1111-60-128, **94**
 Nagnibeda, T. – Special Session 40, abstract 1111-20-286, **71**
 Nakad, Roger – Special Session 9, abstract 1111-53-20, **17**
 Nazir – Special Session 46, abstract 1111-46-737, **83**
 Negri, Matteo – Special Session 36, abstract 1111-74-184, **64**
 Nehaniv, Chrystopher L. – Special Session 1, abstract 1111-20-478, **1**
 Nekrashevych, V. – Special Session 40, abstract 1111-20-633, **72**
 Nekvinda, Ales – Special Session 49, no abstract, **88**
 Neukamm, Stefan – Special Session 31, abstract 1111-35-414, **55**
 Neves, Wladimir – Special Session 33, abstract 1111-35-709, **59**
 Nicol – Special Session 50, abstract 1111-37-577, **90**
 Nikolaus, Thomas – Special Session 28, abstract 1111-55-623, **50**
 Nogueira, Filipa Nunes – Special Session 37, abstract 1111-49-583, **66**
 Nogueira, J. – Special Session 35, abstract 1111-57-347, **62**
 Notari, Roberto – Special Session 12, abstract 1111-13-333, **22**
 Novikov, Alexei – Special Session 31, abstract 1111-35-58, **56**

O'Neill, Christopher – Special Session 13, abstract 1111-13-55, **25**
 Oancea, A. – Special Session 16, abstract 1111-53-723, **30**
 Okada, Soichi – Special Session 3, abstract 1111-05-143, **5**
 Oliveira, Bruno M. P. M. – Special Session 19, abstract 1111-37-817, **34**
 Oliveira, José Nuno – Special Session 7, abstract 1111-68-778, **12**
 Oliveira, Lina – Special Session 42, abstract 1111-17-620, **75**
 Orellana, Rosa – Special Session 3, abstract 1111-05-652, **6**
 Ortega, Angela – Special Session 53, abstract 1111-14-405, **96**
 Ortigueira, Manuel D. – Special Session 21, abstract 1111-93-438, **37**

Pabiniak, M. – Special Session 16, abstract 1111-53-411, **29**
 Pacella, Filomena – Special Session 43, no abstract, **78**
 Palsson, Eyvindur – Special Session 23, abstract 1111-42-590, **41**
 Pambuccian, Victor – Special Session 45, abstract 1111-03-135, **81**
 Paniello, Irene – Special Session 42, abstract 1111-17-622, **75**
 Panov, Evgeny Yu. – Special Session 33, abstract 1111-35-346, **59**
 Panova, Greta – Special Session 3, abstract 1111-05-430, **6**
 Paola, Mario di – Special Session 5, no abstract, **10**
 Papageorgakis, Constantinos – Special Session 25, abstract 1111-81-222, **43**

Parczewski, P. – Special Session 52, abstract 1111-60-215, **94**
 Paul, Emmanuel – Special Session 14, abstract 1111-34-643, **26**
 Pedersen, Henrik – Special Session 47, abstract 1111-41-225, **84**
 Pego, Robert L. – Special Session 10, abstract 1111-35-178, **18**
 Peinke, Joachim – Special Session 5, abstract 1111-60-774, **10**
 Pellacci, Benedetta – Special Session 43, abstract 1111-35-787, **77**
 Peña-Peña, Dixan – Special Session 9, abstract 1111-30-794, **16**
 Peon-Nieto, Ana – Special Session 27, abstract 1111-14-704, **47**
 Pereira, Tiago – Special Session 18, abstract 1111-34-697, **33**
 Pérez-Izquierdo, José María – Special Session 42, abstract 1111-17-142, **75**
 Persson – Special Session 46, abstract 1111-46-307, **83**
 Persson, Daniel – Special Session 25, no abstract, **43**
 Petersen, Carsten – Special Session 30, abstract 1111-37-459, **54**
 Petersen, Dan – Special Session 20, abstract 1111-14-522, **35, 36**
 Pevtsova, Julia – Special Session 12, abstract 1111-16-86, **22**
 Pflueger, Nathan – Special Session 20, abstract 1111-14-625, **35**
 Pianzola, Arturo – Special Session 51, abstract 1111-17-13, **93**
 Piatnitski, Andrey – Special Session 31, no abstract, **56**
 Picado, Jorge – Special Session 7, abstract 1111-06-707, **12**
 Picantin, M. – Special Session 40, abstract 1111-20-109, **72**
 Picchini, Umberto – Special Session 5, abstract 1111-62-298, **9**
 Pietrzycki, Pawel – Special Session 34, abstract 1111-47-544, **60**
 Pinho, E.M. – Special Session 29, abstract 1111-01-608, **51**
 Pinto, Alberto Adrego – Special Session 19, abstract 1111-91-223, **34**
 Pinto, Carla M. – Special Session 21, abstract 1111-34-236, **38**
 Pinto, H. – Special Session 29, abstract 1111-01-541, **51**
 Pinto, Maria Vaz – Special Session 12, abstract 1111-13-164, **23**
 Podvigina, Olga – Special Session 26, abstract 1111-37-390, **45**
 Pollicott – Special Session 50, abstract 1111-37-505, **91**
 Polthier, Konrad – Special Session 39, abstract 1111-51-814, **69**
 Pons-Llopis, Joan – Special Session 53, abstract 1111-14-573, **97**
 Putyra, Krzysztof – Special Session 8, abstract 1111-18-521, **14**

Qi, You – Special Session 8, abstract 1111-16-313, **14**
 Queffelec, Hoel – Special Session 8, abstract 1111-17-207, **15**

Rabinovich, Vladimir – Special Session 17, abstract 1111-45-169, **31**
 Rademacher, Jens – Special Session 26, abstract 1111-34-731, **46**
 Raissy, Jasmin – Special Session 14, abstract 1111-37-357, **27**
 Ramos, Carlos Correia – Special Session 19, abstract 1111-37-479, **34**
 Rau, Johannes – Special Session 20, abstract 1111-14-779, **35**
 Raussen, Martin – Special Session 6, abstract 1111-55-48, **11**
 Rayan, Steven – Special Session 27, abstract 1111-14-434, **47**
 Rebelo, Carlota – Special Session 37, abstract 1111-34-325, **65**
 Rebelo, Julio – Special Session 14, abstract 1111-37-358, **26**
 Reffert, Susanne – Special Session 25, abstract 1111-81-190, **43**
 Rego, N. P. – Special Session 42, abstract 1111-17-106, **75**
 Reguera, Maria Carmen – Special Session 23, abstract 1111-42-783, **41**
 Reis, Gonçalo dos – Special Session 52, abstract 1111-65-292, **95**
 Reis, Helena – Special Session 14, abstract 1111-37-355, **26**

Rhodes, John – Special Session 4, abstract 1111-20-213, **7**
 Ribeiro, Ana M. – Special Session 31, abstract 1111-49-725, **55**
 Rice, A. – Special Session 29, abstract 1111-01-210, **52**
 Richou, Adrien – Special Session 52, abstract 1111-60-285, **94**
 Rink, Bob – Special Session 18, abstract 1111-37-256, **33**
 Rippon, Phil – Special Session 30, abstract 1111-30-698, **54**
 Riva – Special Session 46, abstract 1111-35-777, **83**
 Rizell, G. – Special Session 16, abstract 1111-53-460, **29**
 Robert, Louis-Hadrien – Special Session 8, abstract 1111-55-342, **14**
 Robles-Pérez, Aureliano M. – Special Session 13, abstract 1111-05-706, **24**
 Rocha – Special Session 46, abstract 1111-46-770, **83**
 Rocha, Eugénio M. – Special Session 43, abstract 1111-35-763, **77**
 Rodaro, Emanuele – Special Session 4, abstract 1111-20-158, **8**
 Rodrigues – Special Session 50, no abstract, **90**
 Rodrigues, Rodrigo L. – Special Session 42, abstract 1111-17-45, **76**
 Rodriguez, Daniel – Special Session 34, abstract 1111-47-200, **61**
 Roeder, Roland – Special Session 14, abstract 1111-37-402, **27**
 Roelofs, Rinus – Special Session 39, abstract 1111-51-36, **69**
 Roesch, Pascale – Special Session 30, abstract 1111-37-283, **53**
 Romero, Ana – Special Session 6, abstract 1111-55-335, **11**
 Roquette, Jose Chagas – Special Session 44, abstract 1111-03-504, **79**
 Rosas, Mercedes – Special Session 3, abstract 1111-05-475, **6**
 Rossetti, Bastien – Special Session 30, abstract 1111-37-681, **53**
 Rossi, Maria Evelina – Special Session 32, abstract 1111-13-452, **57**
 Ruan, Haibo – Special Session 18, abstract 1111-34-713, **33**
 Rucklidge, Alastair – Special Session 26, abstract 1111-37-157, **45**
 Runkel, I. – Special Session 28, abstract 1111-81-352, **50**

Sabadini, Irene – Special Session 9, abstract 1111-30-691, **16**
 Sabinina, Liudmila – Special Session 42, abstract 1111-17-775, **76**
 Sakhnovich – Special Session 46, abstract 1111-47-62, **82**
 Salavessa – Special Session 22, abstract 1111-53-567, **39**
 Samko, N. – Special Session 46, abstract 1111-47-310, **83**
 Samko, S. – Special Session 46, abstract 1111-46-303, **83**
 Samson, Adeline – Special Session 5, no abstract, **9**
 Sanchez, Miguel – Special Session 38, abstract 1111-53-47, **68**
 Sandon, S. – Special Session 16, abstract 1111-53-449, **30**
 Santos, Pedro – Special Session 17, abstract 1111-46-649, **31**
 Santos, R. – Special Session 29, abstract 1111-01-432, **51**
 Santos, Simão P. S. – Special Session 21, abstract 1111-49-160, **37**
 Saraiva, L. – Special Session 29, abstract 1111-01-391, **51**
 Sari, Nadir – Special Session 44, abstract 1111-34-146, **80**
 Sari, Tewfik – Special Session 44, abstract 1111-34-377, **80**
 Sartori, Antonio – Special Session 8, abstract 1111-81-166, **15**
 Sasportes, Rafael – Special Session 10, abstract 1111-34-542, **18**
 Sawano, Yoshihiro – Special Session 49, abstract 1111-42-270, **88**
 Sazdanovic, Radmila – Special Session 39, abstract 1111-00-397, **70**
 Sazdanovic, Radmila – Special Session 8, abstract 1111-18-365, **14**
 Schaposnik, Laura – Special Session 27, abstract 1111-51-251, **47**
 Schauenburg, Peter – Special Session 51, abstract 1111-18-733, **92**

Schechtman, Helio – Special Session 37, abstract 1111-92-301, **65**
 Scheidegger, Emanuel – Special Session 25, abstract 1111-14-631, **44**
 Schenkel, Alexander – Special Session 2, abstract 1111-17-88, **4**
 Schmitt, Alexander – Special Session 53, abstract 1111-14-530, **97**
 Schneider, Hans-Jürgen – Special Session 2, abstract 1111-16-334, **3**
 Schommer-Pries, Christopher J. – Special Session 28, abstract 1111-55-574, **50**
 Schreiber, Urs – Special Session 28, abstract 1111-53-686, **49**
 Schweigert, Christoph – Special Session 2, abstract 1111-17-39, **3**
 Schweigert, Christoph – Special Session 28, abstract 1111-81-40, **49**
 Scott, Jeanne S. – Special Session 11, abstract 1111-05-571, **20**
 Seal, Gavin – Special Session 7, abstract 1111-18-682, **13**
 Seidel, Markus – Special Session 17, abstract 1111-47-425, **31**
 Senovilla, José M. M. – Special Session 38, abstract 1111-83-407, **68**
 Shahzamanian C., M. Hossein – Special Session 4, abstract 1111-20-730, **7**
 Shargorodsky, Eugene – Special Session 17, abstract 1111-45-485, **31**
 Sharp – Special Session 22, abstract 1111-53-350, **39**
 Shestakov, Ivan – Special Session 2, abstract 1111-17-487, **3**
 Shestakov, Ivan – Special Session 42, abstract 1111-17-491, **75**
 Shilnikov, Andrey – Special Session 26, abstract 1111-37-826, **45**
 Shishikura, Mitsuhiro – Special Session 30, abstract 1111-37-804, **53**
 Shpilrain, Vladimir – Special Session 1, abstract 1111-20-74, **2**
 Sibony, Nessim – Special Session 14, abstract 1111-37-99, **27**
 Sidki, S. – Special Session 40, abstract 1111-20-451, **71**
 Silbermann, Bernd – Special Session 17, abstract 1111-47-266, **31**
 Silva, Jorge Drumond – Special Session 38, abstract 1111-83-385, **67**
 Silva, Pedro V. – Special Session 3, abstract 1111-55-595, **6**
 Silva, Pedro V. – Special Session 40, abstract 1111-20-446, **71**
 Silva, Pedro V. – Special Session 4, abstract 1111-20-457, **8**
 Silvero, M. – Special Session 35, abstract 1111-54-119, **63**
 Simões, Carlota – Special Session 39, abstract 1111-97-250, **69**
 Simões, Raquel Coelho – Special Session 41, abstract 1111-18-462, **74**
 Singh, Anurag – Special Session 32, abstract 1111-13-497, **57**
 Siqueland, Arvid – Special Session 51, abstract 1111-17-117, **92**
 Sirakov, Boyan – Special Session 43, abstract 1111-35-389, **77**
 Slastikov, Valeriy – Special Session 36, abstract 1111-49-507, **64**
 Slovak, Jan – Special Session 9, abstract 1111-58-440, **16**
 Smart, Charles – Special Session 31, no abstract, **56**
 Smulevici, Jacques – Special Session 38, abstract NA, **67**
 Soares, Filipa – Special Session 4, abstract 1111-20-528, **8**
 Soares, Jorge – Special Session 19, abstract 1111-91-243, **34**
 Soares, Sérgio H. M. – Special Session 43, abstract 1111-35-42, **78**
 Soeiro, Renato – Special Session 19, no abstract, **34**
 Sommen, Frank – Special Session 9, abstract 1111-30-139, **16**
 Sommerhauser, Yorck – Special Session 51, abstract 1111-16-421, **92**
 Sorensen, Helle – Special Session 5, abstract 1111-62-621, **9**
 Soucek, Vladimir – Special Session 9, abstract 1111-35-306, **16**
 Souplet, Philippe P. – Special Session 43, abstract 1111-35-363, **78**
 Sourdis, Christos – Special Session 43, abstract 1111-34-180, **78**
 Sousa, Lurdes – Special Session 7, abstract 1111-18-556, **13**
 Speck, Frank-Olme – Special Session 17, abstract 1111-47-271, **31**

Spirito, Stefano – Special Session 48, abstract 1111-76-533, **86**
 Spiroff, Sandra – Special Session 32, abstract 1111-13-387, **57**
 Spitkovsky – Special Session 46, abstract 1111-47-289, **82**
 Spreafico, Maria Luisa – Special Session 39, abstract 1111-51-33, **70**
 Stallard, Gwyneth – Special Session 30, abstract 1111-30-700, **54**
 Stein, Itamar – Special Session 4, abstract 1111-20-134, **7**
 Steinberg, Benjamin – Special Session 40, abstract 1111-20-501, **72**
 Steinberg, Benjamin – Special Session 4, abstract 1111-20-499, **7**
 Steinerberger, Stefan – Special Session 23, abstract 1111-26-171, **40**
 Stillwell, J. – Special Session 29, abstract 1111-01-17, **52**
 Stochel, Jan – Special Session 34, abstract 1111-47-163, **61**
 Stolin, Alex – Special Session 51, abstract 1111-16-679, **93**
 Stollenwerk, Nico – Special Session 37, abstract 1111-60-658, **65**
 Stosic, Marko – Special Session 41, abstract 1111-55-269, **73**
 Stovicek – Special Session 46, abstract 1111-15-393, **82**
 Stroppel, Catharina – Special Session 8, abstract 1111-16-657, **15**
 Strouse, Elizabeth – Special Session 34, abstract 1111-47-455, **60**
 Stubbe, Isar – Special Session 7, abstract 1111-18-680, **12**
 Sullivan, John M. – Special Session 39, abstract 111-53-788, **69**
 Sunic, Z. – Special Session 40, abstract 1111-20-503, **71**
 Sussan, Joshua – Special Session 8, abstract 1111-16-648, **14**
 Sutton, Craig – Special Session 24, abstract 1111-58-718, **42**
 Szafraniec, Franciszek Hugon – Special Session 34, abstract 1111-47-543, **60**
 Szakács, Nóra – Special Session 4, abstract 1111-20-268, **8**
 Szöke, Róbert – Special Session 15, abstract 1111-53-514, **28**
 Szpruch, Lukasz – Special Session 52, abstract 1111-60-558, **94**

Taft, Earl – Special Session 2, abstract 1111-16-37, **4**
 Tamborrino, Massimiliano – Special Session 5, abstract 1111-60-715, **9**
 Tan, Xiaolu – Special Session 52, abstract 1111-65-38, **95**
 Tarasca, Nicola – Special Session 20, abstract 1111-14-470, **35**
 Tattersall, J. – Special Session 29, abstract 1111-01-320, **52**
 Teixeira, João Paulo – Special Session 44, abstract 1111-35-305, **79**
 Terracini, Susanna – Special Session 43, abstract 1111-49-548, **77**
 Thiemann, Thomas – Special Session 15, abstract 1111-81-780, **28**
 Tholen, Walter – Special Session 7, abstract 1111-18-428, **13**
 Thompson – Special Session 50, abstract 1111-37-581, **91**
 Throm, Sebastian – Special Session 10, abstract 1111-35-417, **18**
 Toppan, F. – Special Session 35, abstract 1111-35-66, **62**
 Torres, Delfim F. M. – Special Session 21, abstract 1111-26-29, **38**
 Tran, Nam Van – Special Session 44, abstract 1111-15-232, **79**
 Trivisa, Konstantina – Special Session 48, abstract 1111-35-560, **86**
 Tubbenhauer, Daniel – Special Session 8, abstract 1111-16-127, **14**
 Turkedjiev, P. – Special Session 52, abstract 1111-60-653, **95**
 Tzavaras, Athanasios – Special Session 33, abstract 1111-35-129, **59**

Uribe, Alejandro – Special Session 24, no abstract, **42**

Vaienti – Special Session 50, abstract 1111-37-61, **91**
 Van Assche, Walter – Special Session 47, abstract 1111-39-445, **84**
 van den Berg, Benno – Special Session 44, abstract 1111-03-63, **79**

van den Berg, Imme – Special Session 44, abstract 1111-03-224, **79**
 Van der Linden, Tim – Special Session 7, abstract 1111-18-219, **12**
 Van Opdenbosch, Karen – Special Session 7, abstract 1111-54-360, **13**
 van Roessel, Henry – Special Session 10, abstract 1111-35-500, **18**
 Varandas – Special Session 50, abstract 1111-37-83, **90**
 Varbaro, Matteo – Special Session 32, abstract 1111-13-469, **57**
 Vavilov, N. A. – Special Session 45, abstract 1111-03-701, **81**
 Veliche, Oana – Special Session 12, abstract 1111-13-168, **23**
 Ventura, Enric – Special Session 40, abstract 1111-20-189, **72**
 Ventura, Enric – Special Session 1, abstract 1111-20-191, **1**
 Vera, Raül – Special Session 38, abstract 1111-83-594, **68**
 Vernikov, Boris M. – Special Session 4, abstract 1111-20-308, **8**
 Verzini, Gianmaria – Special Session 43, abstract 1111-35-450, **78**
 Vicary, J. – Special Session 35, abstract 1111-81-677, **63**
 Villarreal, Rafael – Special Session 32, abstract 1111-13-204, **57**
 Villela, Daniel – Special Session 37, abstract 1111-92-388, **65**
 Virtanen, Jani – Special Session 17, abstract 1111-47-666, **32**
 Virtanen, Jani – Special Session 34, abstract 1111-47-668, **61**
 Volberg, Alexander – Special Session 23, abstract 1111-26-230, **41**
 Volkov, Mikhail V. – Special Session 4, abstract 1111-20-671, **8**

Wagemann, Friedrich – Special Session 28, abstract 1111-18-107, **49**
 Wang – Special Session 22, abstract 1111-53-800, **39**
 Weil, Pascal – Special Session 1, abstract 1111-20-145, **1**
 Weiner, Michael – Special Session 3, abstract 1111-05-95, **5**
 Weiss, Hartmuth – Special Session 27, abstract 1111-53-228, **48**
 Wendland – Special Session 46, abstract 1111-31-206, **82**
 Wendland, Katrin – Special Session 25, abstract 1111-81-68, **43**
 Wentworth, Richard – Special Session 27, abstract 1111-14-629, **48**
 Wiedijk, Freek – Special Session 45, abstract 1111-03-808, **81**
 Wiegand, Roger – Special Session 32, abstract 1111-13-636, **58**
 Wielonsky, Franck – Special Session 47, abstract 1111-41-699, **84**
 Wilkin, Graeme – Special Session 27, abstract 1111-58-329, **47**
 Wilson, R. – Special Session 29, abstract 1111-05-410, **52**
 Wockel, Christoph – Special Session 28, abstract 1111-22-726, **49**
 Wolcott, Luke – Special Session 7, abstract 1111-18-782, **12**
 Wright, Jim – Special Session 23, no abstract, **41**

Xantcha, Qimh – Special Session 7, abstract 1111-16-796, **12**

Yackel, Carolyn A. – Special Session 39, abstract 1111-00-280, **69**
 Yakimov, Milen T. – Special Session 11, abstract 1111-22-655, **20**
 Yakubovich, Semyon – Special Session 47, no abstract, **84**
 Yang, Rongwei – Special Session 34, abstract 1111-47-101, **61**
 Yoo, Meesue – Special Session 3, abstract 1111-05-262, **5**
 Yudin, Ivan – Special Session 41, abstract 1111-16-589, **73**
 Yung, Po-Lam – Special Session 23, abstract 1111-42-498, **41**

Zack, M. – Special Session 29, abstract 1111-01-331, **51**
 Zakeri, Saeed – Special Session 30, abstract 1111-37-751, **53**
 Zamora, Alfonso – Special Session 27, abstract 1111-14-279, **47**

Zappale, Elvira – Special Session 31, abstract 1111-49-294, **56**
Zarzuela, Santiago – Special Session 13, abstract 1111-13-231, **25**
Zarzuela, Santiago – Special Session 32, abstract 1111-13-233, **58**
Zeitoun, Marc – Special Session 4, abstract 1111-68-673, **7**
Zelmanov, Efim – Special Session 42, abstract 1111-17-659, **75**
Zemlyanova, Anna – Special Session 36, abstract 1111-74-34, **64**
Zeng, Jinsong – Special Session 30, abstract 1111-37-209, **54**
Zentner, Raphael – Special Session 8, abstract 1111-57-593, **15**
Zhang, Yinhuo – Special Session 2, abstract 1111-16-71, **3**
Zhevandrov – Special Session 46, abstract 1111-76-324, **82**
Zhu, Chenchang – Special Session 28, abstract 1111-53-638, **49**
Zusmanovich, Pasha – Special Session 42, no abstract, **76**