Special Session 1
Algebra and Computer Science

Thursday June 11, 2015 – Room M006

9:00-9:20 Enric Ventura
Membership in the BNS invariant.

9:30-9:50 Pascal Weil
Generic properties of randomly chosen subgroups of free groups and group presentations.

10:00-10:20 João Jorge Araújo
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
Completions of ordered structures.

11:30-11:50 Chrystopher L. Nehaniv
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
A family of polycyclic groups over which the uniform conjugacy problem is NP-complete.

9:30-9:50 Peter Mayr
Computational problems for direct products of algebras.

10:00-10:20 Miguel Couceiro
An Arrow-like theorem for aggregation procedures over median algebras.

10:20-11:00 Coffee/Tea Break

11:00-11:20 Andrei Krokhin
On constant-factor approximable Minimum Constraint Satisfaction Problems.

11:30-11:50 Jonathan Gryak
Conjugacy problem in polycyclic and metabelian groups: algorithms and complexity.

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.
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-13:20</td>
<td>Vladimir Shpilrain</td>
<td><em>Navigating in the Cayley graph of SL₂(Fₚ) and applications to hashing.</em></td>
</tr>
<tr>
<td>13:30-13:50</td>
<td>Laura I Ciobanu</td>
<td><em>The language complexity of algebraic sets in free groups and monoids.</em></td>
</tr>
<tr>
<td>14:00-14:20</td>
<td>Susan Hermiller</td>
<td><em>Conjugacy languages in groups.</em></td>
</tr>
<tr>
<td>14:30-14:50</td>
<td>Yago Antolin</td>
<td><em>Conjugacy languages of hyperbolic groups.</em></td>
</tr>
<tr>
<td>15:00-15:20</td>
<td>Ariane Masuda</td>
<td><em>Character theory of monoids over an arbitrary field.</em></td>
</tr>
</tbody>
</table>

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Special Session 2
Algebraic and Categorical Aspects of Hopf Algebras

Wednesday June 10, 2015 – Room M027

13:00-13:20 Hans-Jürgen Schneider
*The braided Hopf algebra structure of reflected Nichols algebras.*

13:30-13:50 Mitja Mastnak
*Quantum Lie algebras and formal graded deformations of Nichols algebras.*

14:00-14:20 Julien Bichon
*Cohomological dimensions of Hopf algebras.*

14:30-14:50 Daniel Bulacu
*On Frobenius and separable algebra extensions in monoidal categories.*

15:00-15:20 Marcelo Aguiar
*Monads on higher monoidal categories.*

Friday June 12, 2015 – Room M027

9:00-9:20 Ivan Shestakov
*Non-associative Hopf algebras of formal diffeomorphisms.*

9:30-9:50 Yinhuo Zhang
*Braded autoequivalences and quantum-commutative Galois objects.*

10:00-10:20 Bachuki Mesablishvili
*On descent cohomology.*

10:20-11:00 Coffee/Tea Break

11:00-11:20 Alexei Davydov
*Twisted automorphisms and derivations of Hopf algebras.*

11:30-11:50 Christoph Schweigert
*Invariants for mapping class group actions from ribbon Hopf algebra automorphisms.*

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Saturday June 13, 2015 – Room M005

13:00-13:20 Earl Taft
   Is there a left Hopf algebra containing quantum $U(sl(2))$?

13:30-13:50 Gabriella Böhm
   Weak multiplier bialgebras.

14:00-14:20 Ramon Gonzalez
   Weak Hopf quasigroups.

14:30-14:50 Alexander Schenkel
   Nonassociative geometry in quasi-Hopf representation categories.

15:00-15:20 Tomasz Brzezinski
   Noncommutative smoothing.

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Special Session 3
Algebraic Combinatorics and Representation Theory

Wednesday June 10, 2015 – Room M027

9:00-9:20  Jim Haglund  
Interpretations for a four-parameter Catalan sequence.  
abstract # 1111-05-580

9:30-9:50  Soichi Okada  
On the existence of generalized parking spaces for complex reflection groups.  
abstract # 1111-05-143

10:00-10:20  Rui Duarte  
From parking functions to the regions of the Shi arrangement.  
abstract # 1111-05-810

10:20-11:00  Coffee/Tea Break

11:00-11:20  Ricardo Mamede  
Lexicographical combinatorial generation and Gray codes for noncrossing and nonnesting set partitions of classical type.  
abstract # 1111-05-30

11:30-11:50  Michael Weiner  
Colored partitions of a convex polygon by non-crossing diagonals.  
abstract # 1111-05-95

Thursday June 11, 2015 – Room M027

12:30-12:50  Cedric Lecouvey  
Quantisation of Littlewood-Richardson beyond type A.  
abstract # 1111-05-185

13:00-13:20  Peter MacNamara  
Comparing skew Schur functions: a quasisymmetric perspective.  
abstract # 1111-05-585

13:30-13:50  Sabine Beil  
Wieland drift for triangular fully packed loop configurations.  
abstract # 1111-05-789

14:00-14:20  Meesue Yoo  
Schur coefficients of the integral form MacDonald polynomials.  
abstract # 1111-05-262

14:30-14:50  Deniz Kus  
Demazure characters and fusion products.  
abstract # 1111-05-137

15:00-15:20  Aram Emami  
Growth diagrams and a Lascoux’s non-symmetric Cauchy identity over near staircases.  
abstract # 1111-05-263

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.
Saturday June 13, 2015 – Room M029

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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:30-12:50</td>
<td>Rosa Orellana</td>
<td><em>Graphs with the same chromatic symmetric function.</em></td>
</tr>
<tr>
<td>13:00-13:20</td>
<td>Ilse Fischer</td>
<td><em>Lozenge tilings of hexagons with arbitrary dents.</em></td>
</tr>
<tr>
<td>14:00-14:20</td>
<td>Mercedes Rosas</td>
<td><em>Commutation and normal ordering for operators on symmetric functions.</em></td>
</tr>
<tr>
<td>14:30-14:50</td>
<td>Greta Panova</td>
<td><em>Kronecker coefficients – combinatorics, complexity and beyond.</em></td>
</tr>
<tr>
<td>15:00-15:20</td>
<td>Emmanuel Briand</td>
<td><em>Vertex operators and Kronecker coefficients.</em></td>
</tr>
</tbody>
</table>

*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.*
Special Session 4
Algebraic Theory of Semigroups and Applications

Wednesday June 10, 2015 – Room M007

12:30-12:50 Benjamin Steinberg
The representation theory of the full transformation monoid.

13:00-13:20 Gracinda M.S. Gomes
Takahashi semigroups.

13:30-13:50 Itamar Stein
The ordinary quiver of the algebra of the monoid of all partial functions on a set.

14:00-14:20 João Jorge Araújo
Conjugation in semigroups.

14:30-14:50 Karl Auinger
The Ribes-Zalesskii Theorem revisited.

15:00-15:20 John Rhodes
A survey of finite join irreducible (ji) semigroups.

Thursday June 11, 2015 – Room M007

12:30-12:50 Jorge Almeida
The finite basis and finite rank properties for pseudovarieties of semigroups.

13:00-13:20 M. Hossein Shahzamanian C.
The pro-nilpotent group topology on a free group.

13:30-13:50 Alan J. Cain
Crystal bases, finite convergent presentations, and automaticity for plactic monoids.

14:00-14:20 Laure Daviaud
Classes of languages generated by the Kleene star of a word.

14:30-14:50 Ondřej Klíma
Overview of new results on piecewise testable languages.

15:00-15:20 Marc Zeitoun
A survey on separation problems.

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.
Friday June 12, 2015 – Room M007

9:00-9:20 Victoria Gould
Free idempotent generated semigroups and the endomorphism monoid of a free $G$-act.

9:30-9:50 Robert D. Gray
On regularity and the word problem for free idempotent generated semigroups. Part I.

10:00-10:20 Filipa Soares
Howson’s property for semidirect products of semilattices by groups.

10:20-11:00 Coffee/Tea Break

11:00-11:20 Mark Kambites
Anisimov’s Theorem for inverse semigroups.

11:30-11:50 Wolfram Bentz
Synchronizing automata, graphs, and transformation monoids.

12:00-12:20 Mikhail V. Volkov
The finite basis problem for matrix semigroups.

Saturday June 13, 2015 – Room M007

12:30-12:50 Peter R. Jones
Strict restriction semigroups and Tilson’s “Categories as Algebra”.

13:00-13:20 Nóra Szakács
On the graph condition regarding the $F$-inverse cover problem.

13:30-13:50 Boris M. Vernikov
Special elements of lattices of semigroup varieties.

14:00-14:20 Veny Liu
Free inverse semigroupoids and their inverse subsemigroups.

14:30-14:50 Emanuele Rodaro
Decidability vs undecidability in HNN-extensions of inverse semigroups.

15:00-15:20 Pedro V. Silva
Complexity advances in equations over semigroups.

Rooms $M_{xyy}$ 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.
# Special Session 5
## Applications of Stochastic Differential Equations

### Thursday June 11, 2015 – Room F-117

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Abstract Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-13:20</td>
<td>Fabien Campillo</td>
<td>Stochastic differential equations in population dynamics, between discrete and deterministic models.</td>
<td>abstract # 1111-60-381</td>
</tr>
<tr>
<td>14:00-14:20</td>
<td>Helle Sorensen</td>
<td>Stochastic differential equations with random effects.</td>
<td>abstract # 1111-62-621</td>
</tr>
<tr>
<td>14:30-14:50</td>
<td>Umberto Picchini</td>
<td>Maximum likelihood estimation of state-space SDE models using data-cloning approximate Bayesian computation.</td>
<td>abstract # 1111-62-298</td>
</tr>
<tr>
<td>15:00-15:20</td>
<td>Carlos Braumann</td>
<td>Can populations live forever?</td>
<td>abstract # 1111-60-10</td>
</tr>
</tbody>
</table>

### Friday June 12, 2015 – Room F-117

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

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### Saturday June 13, 2015 – Room M219

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

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Special Session 6
Applied Algebraic Topology

Thursday June 11, 2015 – Room F-116

13:00-13:50  Massimo Ferri  
Biomedical applications of persistent Homology.  
abstract # 1111-55-221

14:00-14:50  Matthew Kahle  
The length of the longest bar in random persistent homology.  
abstract # 1111-55-248

15:00-15:20  Armindo Costa  
Topology of random simplicial complexes.  
abstract # 1111-55-531

Friday June 12, 2015 – Room F-116

9:00-9:50  Martin Raussen  
Combinatorial and topological models for spaces of schedules.  
abstract # 1111-55-48

10:00-10:20  Ana Romero  
Zigzag persistence: application to processing stacks of neuronal images.  
abstract # 1111-55-335

10:20-11:00  Coffee/Tea Break

11:00-11:50  Jose Manuel Garcia-Calcines  
On some approaches of topological complexity.  
abstract # 1111-55-614

Saturday June 13, 2015 – Room F-116

9:00-9:50  Graham Ellis  
Computing with homotopy 2-types.  
abstract # 1111-55-338

10:00-10:20  Jose Gabriel Carrasquel-Vera  
On rational topological complexity and related invariants.  
abstract # 1111-55-550

10:20-11:00  Coffee/Tea Break

11:00-11:50  Sanjeevi Krishnan  
Dynamic sensor networks.  
abstract # 1111-55-606

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Special Session 7
Categorical Methods in Algebra and Topology

Friday June 12, 2015 – Room M107

13:00-13:20  Tim Van der Linden  
*When is a double central extension universal?*  
abstract # 1111-18-219

13:30-13:50  Nelson Martins-Ferreira  
*On abstract systems of neighbourhoods and a relational approach to the theory of topological groups.*  
abstract # 1111-06-693

14:00-14:20  Qimh Xantcha  
*The combinatorics of polynomial functors.*  
abstract # 1111-16-796

14:30-14:50  Javier Gutiérrez-García  
*Around the frame of reals: extended and partial reals and the unit circle in Pointfree Topology.*  
abstract # 1111-06-568

15:00-15:20  Jorge Picado  
*Order completions of pointfree function rings as function rings.*  
abstract # 1111-06-707

Saturday June 13, 2015 – Room M107

9:30-9:50  José Nuno Oliveira  
abstract # 1111-68-778

10:00-10:20  Marino Gran  
*Star-regularity and regular completions.*  
abstract # 1111-18-612

10:20-11:00  Coffee/Tea Break

11:00-11:20  Luke Wolcott  
*Bousfield lattice invariants of triangulated symmetric monoidal categories.*  
abstract # 1111-18-782

11:30-11:50  Isar Stubbe  
*Partial metric spaces as enriched categories.*  
abstract # 1111-18-680

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Saturday June 13, 2015 – Room M107

13:30-13:50  Lurdes Sousa  
On injectivity of locales and spaces.  

abstract # 1111-18-556

14:00-14:20  Karen Van Opdenbosch  
Approach spaces, functional ideal convergence and Kleisli monoids.  

abstract # 1111-54-360

14:30-14:50  Gavin Seal  
An adjunction between lax extensions and presheaf monads.  

abstract # 1111-18-682

15:00-15:20  Walter Tholen  
Lax-algebraic structures without the unit law.  

abstract # 1111-18-428

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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 contruction.

15:00-15:20 Krzysztof Putyra  
*abstract # 1111-18-521*

Homological operations coming from odd Khovanov homology.

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### Friday June 12, 2015 – Room M003

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<th>Title</th>
<th>Abstract Link</th>
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<tbody>
<tr>
<td>9:00-9:20</td>
<td>Hoel Quefellec</td>
<td>Homfly-Pt and Alexander polynomials from a doubled Schur algebra.</td>
<td>abstract # 1111-17-207</td>
</tr>
<tr>
<td>9:30-9:50</td>
<td>Antonio Sartori</td>
<td>Mixed super skew Howe duality.</td>
<td>abstract # 1111-81-166</td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>Michael Ehrig</td>
<td>Categorification of quantum symmetric pairs.</td>
<td>abstract # 1111-16-798</td>
</tr>
<tr>
<td>10:20-11:00</td>
<td>Coffee/Tea Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00-11:50</td>
<td>Catharina Stroppel</td>
<td>Gradings on centralizer algebras and categorification.</td>
<td>abstract # 1111-16-657</td>
</tr>
</tbody>
</table>

### Saturday June 13, 2015 – Room M003

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

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

Wednesday June 10, 2015 – Room Q007

9:00-9:20 Irene Sabadini
On some approximation properties for slice regular functions of a quaternionic variable.

9:30-9:50 Dixan Peña-Peña
Biaxial monogenic functions from Funk-Hecke’s formula combined with Fueter’s theorem.

10:00-10:20 Frank Sommen
On the Szegö-Radon projection of monogenic functions.

10:20-11:00 Coffee/Tea Break

11:00-11:20 Pan Lian
A new construction of the Clifford-Fourier kernel.

11:30-11:50 Lander Cnudde
Slice Fourier transform: definition, properties and corresponding convolutions.

Friday June 12, 2015 – Room Q007

9:00-9:20 Jan Slovak
Subriemannian metrics and some parabolic geometries.

9:30-9:50 Vladimir Soucek
Basic equations of quaternionic Clifford analysis.

10:00-10:20 Roman Lavicka
Fischer decomposition and Howe duality in quaternionic Clifford analysis.

10:20-11:00 Coffee/Tea Break

11:00-11:20 Daniel Alpay
On algebras which are inductive limits of Banach spaces.

11:30-11:50 Uwe Kaehler
Discrete function theory and Hardy spaces.

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

Rooms $M_{x\,yy}$ are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms $Q_{0\,yy}$ are located in the Chemistry Department on the ground floor; rooms $F-1\,yy$ are located in the Physics Department, basement floor.
Special Session 10
Cluster Evolution Equations: Coagulation, Fragmentation, and Related Systems

Wednesday June 10, 2015 – Room Q010

14:00-14:20 Henry van Roessel
Coagulation equations with nonhomogeneous kernels.

14:30-14:50 José Cañizo
Cercignani’s conjecture for the Boltzmann equation and analogs for the Becker-Döring system.

15:00-15:20 Ryan W. Murray
Algebraic convergence rates for the Becker-Doering equations.

Thursday June 11, 2015 – Room Q010

9:00-9:20 Marco A. Fontelos
Selfsimilar solutions for coagulation and fragmentation processes.

9:30-9:50 Sebastian Throm
Self-similar solutions with fat tails for Smoluchowski’s coagulation equation with singular kernels.

10:00-10:20 Rafael Sasportes
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
An analysis of merging-splitting group dynamics by Bernstein function theory.

11:30-11:50 Michael Helmers
A simple model for coarsening in infinite particle systems.

Rooms Mxxy 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.
Friday June 12, 2015 – Room Q010

9:00-9:20 Ankik Kumar Giri  
Existence and uniqueness of weak solutions to the general nonlinear fragmentation equation.  
abstract # 1111-35-756

9:30-9:50 Wilson Lamb  
Semigroups of operators and the discrete coagulation-fragmentation equation.  
abstract # 1111-47-506

10:00-10:20 Jacek Banasiak  
Analyticity of fragmentation semigroups with applications.  
abstract # 1111-35-466

10:20-11:00 Coffee/Tea Break

Rooms Mxxy 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.
Special Session 11
Combinatorics and Geometry of Quantum Algebras

**Thursday June 11, 2015 – Room M007**

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

**Friday June 12, 2015 – Room M006**

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

Rooms M\text{xyy} are located in the Mathematics Department on floor \(x = 0, 1, 2\); rooms Q0\text{yy} are located in the Chemistry Department on the ground floor; rooms F-1\text{yy} are located in the Physics Department, basement floor.
### Saturday June 13, 2015 – Room M108

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:20</td>
<td>Jason P. Bell</td>
<td>Poisson algebras and the Poisson Dixmier-Moeglin equivalence.</td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>Sian Fryer</td>
<td>On prime ideals in quantum matrices and Poisson-primes in the semi-classical limit.</td>
</tr>
<tr>
<td>10:20-11:00</td>
<td><strong>Coffee/Tea Break</strong></td>
<td></td>
</tr>
<tr>
<td>11:00-11:20</td>
<td>Matyas Domkos</td>
<td>On the FRT bialgebra of orthogonal type.</td>
</tr>
</tbody>
</table>

*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.*
Special Session 12
Commutative Artinian Algebras and Their Deformations

Wednesday June 10, 2015 – Room M030

9:00-9:20 Aldo Conca
Absolutely Koszul algebras.

abstract # 1111-13-172

9:30-10:20 Julia Pevtsova
Support varieties, local Jordan type, and applications.

abstract # 1111-16-86

10:20-11:00 Coffee/Tea Break

11:00-11:20 Ela Celikbas
Decomposing Gorenstein Rings as Connected Sums - I.

abstract # 1111-13-326

11:30-11:50 Ananthanarayan Hariharan
Decomposing Gorenstein Rings as Connected Sums - II.

abstract # 1111-13-375

Thursday June 11, 2015 – Room M029

13:00-13:20 Mats Boij
The non-Lefschetz locus of artinian complete intersections.

abstract # 1111-13-291

13:30-13:50 Ines B. Henriques
Quasi-complete intersection ideals.

abstract # 1111-13-349

14:00-14:20 Gianfranco Casnati
A quick overview on c-stretched algebras.

abstract # 1111-13-175

14:30-14:50 Joachim Jelisiejew
Deformations and smoothability of Artin Gorenstein algebras.

abstract # 1111-13-108

15:00-15:20 Roberto Notari
Obstructed local Artin Gorenstein algebras.

abstract # 1111-13-333

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.
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Abstract ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:20</td>
<td>Juan Elias</td>
<td>How far is an Artin ring to be Gorenstein.</td>
<td>1111-13-167</td>
</tr>
<tr>
<td>9:30-9:50</td>
<td>Lars Winther Christensen</td>
<td>Intersections and sums of Gorenstein ideals.</td>
<td>1111-13-173</td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>Oana Veliche</td>
<td>Intersections and sums of Gorenstein ideals with special attention to codepth 3.</td>
<td>1111-13-168</td>
</tr>
<tr>
<td>10:20-11:00</td>
<td><strong>Coffee/Tea Break</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00-11:20</td>
<td>Maria Vaz Pinto</td>
<td>Regularity of vanishing ideals associated to certain families of graphs.</td>
<td>1111-13-164</td>
</tr>
<tr>
<td>11:30-11:50</td>
<td>Alessandra Bernardi</td>
<td>On the cactus variety of cubic forms.</td>
<td>1111-14-257</td>
</tr>
</tbody>
</table>

*Rooms M*<sub>x</sub>*yy* are located in the Mathematics Department on floor *x* = 0, 1, 2; rooms *Q*<sub>0</sub>*yy* are located in the Chemistry Department on the ground floor; rooms *F*-1*yy* are located in the Physics Department, basement floor.*
Special Session 13
Commutative Monoids

Wednesday June 10, 2015 – Room M122

13:00-13:20    Valentina Barucci
                On symmetric oversemigroups of a numerical semigroup.
                abstract # 1111-13-183

13:30-13:50    Marco D'Anna
                Classes of complete intersection numerical semigroups.
                abstract # 1111-13-267

14:00-14:20    Veronica Crispin Quiñonez
                The Ratliff-Rush operation on monomial ideals in three variables.
                abstract # 1111-13-300

14:30-14:50    Shalom Eliahou
                Some progress towards Wilf’s conjecture.
                abstract # 1111-13-41

15:00-15:20    Aureliano M. Robles-Pérez
                On the pseudo-Frobenius numbers of numerical semigroups.
                abstract # 1111-05-706

Thursday June 11, 2015 – Room M122

9:00-9:20       Julio-José Moyano-Fernández
                Duality and syzygies for semimodules over numerical semigroups.
                abstract # 1111-13-827

9:30-9:50       Bogdan Ichim
                How to compute the Stanley depth of a module.
                abstract # 1111-05-676

10:00-10:20     J. I. García-García
                Affine convex body semigroups of $\mathbb{N}^3$.
                abstract # 1111-20-710

10:20-11:00     Coffee/Tea Break

11:00-11:50     Winfried Bruns
                Recent developments in Normaliz.
                abstract # 1111-20-114

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.
Saturday June 13, 2015 – Room M122

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:20</td>
<td>Alfred Geroldinger</td>
<td><em>Sets of lengths in Krull monoids.</em></td>
</tr>
<tr>
<td>9:30-9:50</td>
<td>Christopher O’Neill</td>
<td><em>Computing delta sets and omega-primality in numerical monoids.</em></td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>Santiago Zarzuela</td>
<td><em>Shifted numerical semigroups and their tangent cones.</em></td>
</tr>
<tr>
<td>10:20-11:00</td>
<td></td>
<td><strong>Coffee/Tea Break</strong></td>
</tr>
<tr>
<td>11:00-11:50</td>
<td>Manuel Delgado</td>
<td><em>numericalsgps GAP package (tutorial).</em></td>
</tr>
</tbody>
</table>

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.
Special Session 14
Complex Dynamics and Foliations

Wednesday June 10, 2015 – Room F-120

13:00-13:50 Yulij Il’yashenko
New Phragmen-Lindelef theorems for functional cochains.

14:00-14:50 Emmanuel Paul
Dynamics on wild character varieties.

15:00-15:20 Helena Reis
2-dimensional Lie algebras and separatrices for vector fields on \((\mathbb{C}^3, 0)\), I.

Thursday June 11, 2015 – Room F-120

9:00-9:20 Julio Rebelo
2-dimensional Lie algebras and separatrices for vector fields on \((\mathbb{C}^3, 0)\), II.

9:30-10:20 Felipe Cano Torres
Local Brunella’s conjecture.

10:20-11:00 Coffee/Tea Break

11:00-11:50 Sorin Mihail Dumitrescu
Holomorphic geometric structures on parallelizable manifolds.

Rooms Mxxy 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.
Friday June 12, 2015 – Room F-120

13:00-13:50  Nessim Sibony
Analysis on laminations by Riemann Surfaces.

14:00-14:50  Nataliya Goncharuk
Genera of non-algebraic leaves of polynomial foliations of CP².

15:00-15:20  Jasmin Raissy
Wandering Fatou components in dimension two.

Saturday June 13, 2015 – Room Q019

9:00-9:20  Jasmin Raissy
Wandering Fatou components in dimension two.

9:30-10:20  Alexey Glutsyuk
On periodic orbits in complex billiards and tangential correspondence.

10:20-11:00  Coffee/Tea Break

11:00-11:50  Roland Roeder
Rational maps of the projective plane with equal dynamical degrees and no invariant foliation.

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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.
**Special Session 15**  
**Complex Time in Quantum Physics and Geometry**

### Wednesday June 10, 2015 – Room F-116

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-13:50</td>
<td>Carl M. Bender</td>
<td>Nonlinear eigenvalue problems and PT symmetry.</td>
</tr>
<tr>
<td>14:00-14:50</td>
<td>Thomas Thiemann</td>
<td>Complexifier coherent states in loop quantum gravity.</td>
</tr>
</tbody>
</table>

### Thursday June 11, 2015 – Room F-116

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:50</td>
<td>Róbert Szóke</td>
<td>Adapted complex structures and geometric quantization.</td>
</tr>
<tr>
<td>10:20-11:00</td>
<td><strong>Coffee/Tea Break</strong></td>
<td></td>
</tr>
<tr>
<td>11:00-11:50</td>
<td>Eva-Maria Graefe</td>
<td>The semiclassical limit of complexified quantum dynamics.</td>
</tr>
</tbody>
</table>

### Friday June 12, 2015 – Room F-117

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-13:50</td>
<td>Brian Hall</td>
<td>Magnetic complex structures and quantization.</td>
</tr>
<tr>
<td>14:00-14:50</td>
<td>Daniel Burns</td>
<td>The exponential map of the complexification of Ham in the real-analytic case.</td>
</tr>
</tbody>
</table>

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*Rooms Mxxy 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.*
Special Session 16
Contact and Symplectic Topology

Thursday June 11, 2015 – Room M030

13:00-13:50 V. Ginzburg
Periodic orbits of Hamiltonian systems: conjectures and recent results.
abstract # 1111-53-429

14:00-14:20 M. Batoreo
Periodic points of symplectomorphisms.
abstract # 1111-53-433

14:30-14:50 M. Pabiniak
On displaceability of pre-Lagrangians in toric contact manifolds.
abstract # 1111-53-411

15:00-15:20 S. Anjos
Seidel’s morphism of toric 4-manifolds.
abstract # 1111-22-265

Friday June 12, 2015 – Room M030

9:00-9:50 L. Macarini
Reeb flows with positive topological entropy and contact surgery.
abstract # 1111-37-661

10:00-10:20 G. Rizell
The classification of monotone Lagrangian tori in 4-dimensional symplectic vector space.
abstract # 1111-53-460

10:20-11:00 Coffee/Tea Break

11:00-11:50 E. Miranda
The geometry and topology of b-symplectic manifolds.
abstract # 1111-53-113

Rooms Mxxy 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.
Friday June 12, 2015 – Room M030

13:00-13:50  A. Oancea
Symplectic and contact differential graded algebras.

14:00-14:20  L. Diogo
Symplectic homology via GW theory.

14:30-15:20  R. Hind
Symplectic embeddings of products.

Saturday June 13, 2015 – Room M030

13:00-13:20  Y. H. Cho
Unimodality of Betti numbers for Hamiltonian circle actions with isolated fixed points.

13:30-13:50  R. Casals
Geometric criteria for overtwistedness.

14:00-14:20  S. Sandon
Translated points of contactomorphisms.

14:30-15:20  H. Geiges
Cobordisms between symplectic fibrations.

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.
Special Session 17
Convolution Type Operators

Thursday June 11, 2015 – Room Q007

13:00-13:20 Bernd Silbermann
Banach algebras of matrix sequences: approximation numbers.

abstract # 1111-47-266

13:30-13:50 Helena Mascarenhas
Quasi-banded operators and approximations of convolutions with almost periodic or quasi-continuous symbol.

abstract # 1111-46-654

14:00-14:20 Markus Seidel
Essential pseudospectra and essential norms of band-dominated operators.

abstract # 1111-47-425

14:30-14:50 Claudio Fernandes
Wiener-Hopf factorization in decomposing complete metric algebras.

abstract # 1111-47-647

15:00-15:20 Yuri Karlovich
A $C^*$-algebra of nonlocal convolution type operators.

abstract # 1111-47-496

Friday June 12, 2015 – Room Q023

9:00-9:20 Luis Castro
The use of weighted Mellin pseudo-differential operators in BVPs for the Helmholtz equation.

abstract # 1111-47-235

9:30-9:50 Vladimir Rabinovich
Boundary integral equations of diffraction problems on non-compact obstacles.

abstract # 1111-45-169

10:00-10:20 Frank-Olme Speck
Convolution type operators with symmetry.

abstract # 1111-47-271

10:20-11:00 Coffee/Tea Break

11:00-11:20 Eugene Shargorodsky

abstract # 1111-45-485

11:30-11:50 Pedro Santos
Some notes on the singular integral operator acting on super Lebesgue spaces.

abstract # 1111-46-649

Rooms M<sub>x</sub>y<sub>y</sub> are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms Q<sub>0</sub>y<sub>y</sub> are located in the Chemistry Department on the ground floor; rooms F<sub>-1</sub>y<sub>y</sub> 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 $M_{x}$ are located in the Mathematics Department on floor $x = 0, 1, 2$; rooms $Q_{0}$ are located in the Chemistry Department on the ground floor; rooms $F_{-1}$ are located in the Physics Department, basement floor.
Special Session 18
Coupled Cell Dynamics

Wednesday June 10, 2015 – Room F-117

13:00-13:50 Marty Golubitsky
Homeostasis as a network invariant.
abstract # 1111-34-575

14:00-14:50 Bob Rink
Are networks governed by hidden symmetry?
abstract # 1111-37-256

15:00-15:20 Ana Dias
An overview of synchrony in coupled cell networks.
abstract # 1111-37-561

Thursday June 11, 2015 – Room Q010

13:00-13:50 Mike Field
The factorization of dynamics theorem for asynchronous networks.
abstract # 1111-37-735

14:00-14:50 Chris Bick
Dynamics of phase oscillators with generalized coupling.
abstract # 1111-37-738

15:00-15:20 Nikita Agarwal
Networks with dynamic topology.
abstract # 1111-37-569

Saturday June 13, 2015 – Room Q010

9:00-9:50 Tiago Pereira
Improving the network structure can lead to functional failures.
abstract # 1111-34-697

10:00-10:20 Haibo Ruan
Symmetry analysis of coupled scalar systems under time delay.
abstract # 1111-34-713

10:20-11:00 Coffee/Tea Break

11:00-11:20 Célia Moreira
Special Jordan subspaces and synchrony in coupled cell networks.
abstract # 1111-37-187

11:30-11:50 Anna Cherubini
A percolation study for desertification transitions.
no abstract

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.
Special Session 19
Dynamics and Games

Wednesday June 10, 2015 – Room M006

13:00-13:20 Alberto Adrego Pinto
Uncertainty costs on an international duopoly with tariffs.

13:30-13:50 Bruno M. P. M. Oliveira
Equilibria in a model of immune responses by T cells.

14:00-14:20 João P. Almeida
Anosov diffeomorphisms and tilings.

14:30-14:50 Carlos Correia Ramos
Nonlinearity, control and decision.

15:00-15:20 Alberto Álvarez-López
Decision analysis under uncertainty in a model of sports economics.

Thursday June 11, 2015 – Room Q023

9:00-9:20 Jorge Soares
Price dynamics in Hotelling model.

9:30-9:50 José Martins
An economical model for international expansion with and without make dumping.

10:00-10:20 Renato Soeiro
Pure Nash equilibria in human decisions.

10:20-11:00 Coffee/Tea Break

11:00-11:20 Filipe Martins
A Bifurcation Theorem for evolutionary matrix models with multiple evolutionary traits.

11:30-11:50 Elvio Accinelli
Imitation game: a model of endogenous technological jumps.

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Rooms Mxxy 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.
Special Session 20
Enumerative and Combinatorial Methods in Moduli Theory

Thursday June 11, 2015 – Room M108

9:00-9:50 Dan Petersen  
Counterexamples to the Faber conjectures I.  
abstract # 1111-14-522

10:00-10:20 Nicola Tarasca  
Pointed Castelnuovo numbers.  
abstract # 1111-14-470

10:20-11:00 Coffee/Tea Break

11:00-11:20 Felix Janda  
Pixton’s formula for the double ramification cycle.  
abstract # 1111-14-275

11:30-11:50 Bashar Dudin  
Closure of the Hurwitz scheme in the space of stable maps.  
abstract # 1111-14-418

Friday June 12, 2015 – Room M108

13:00-13:50 Erwan Brugallé  
Enumeration of complex, real and tropical curves in surfaces I.  
abstract # 1111-51-131

14:00-14:20 Johannes Rau  
Constructing real algebraic curves using tropical geometry.  
abstract # 1111-14-779

14:30-14:50 Nathan Pflueger  
Tableaux in Brill-Noether theory.  
abstract # 1111-14-625

15:00-15:20 Yoav Len  
Tropical vector bundles.  
abstract # 1111-14-67

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.
Saturday June 13, 2015 – Room M108

13:00-13:50 Dan Petersen                        
Counterexamples to the Faber conjectures II.        

14:00-14:20 Gilberto Bini                        
From Calabi-Yau Manifolds to Surfaces of General Type.

14:30-15:20 Erwan Brugallé                        
Enumeration of complex, real and tropical curves in surfaces II.

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.
Special Session 21
Fractional and Time-scale Analysis

Wednesday June 10, 2015 – Room M107

9:00-9:20 Natalia Martins
Krause’s model of opinion dynamics on time scales. abstract # 1111-37-155

9:30-9:50 Manuel D. Ortigueira
Exponentials and transforms on regular time scales. abstract # 1111-93-438

10:00-10:20 Loïc Bourdin
Optimal sampled-data controls, and generalizations on time scales. abstract # 1111-49-80

10:20-11:00 Coffee/Tea Break

11:00-11:20 Nagwa Mohamed Arafa
Controlling the power laws in shell models of turbulence. abstract # 1111-49-806

11:30-11:50 Simão P. S. Santos
Noether’s theorem for higher-order variational problems of Herglotz type. abstract # 1111-49-160

Thursday June 11, 2015 – Room M107

13:30-13:50 Sanja Konjik
Fractional models of the wave equation. abstract # 1111-35-21

14:00-14:20 Moulay Rchid Sidi Ammi
Finite difference/spectral approximations for the time-fractional thermistor problem. abstract # 1111-39-28

14:30-14:50 Agnieszka B. Malinowska
Variational problems with the fractional-order backward-difference. abstract # 1111-49-454

15:00-15:20 Nuno R. O. Bastos
A numerical method to solve higher-order fractional differential equations. 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
Monotonicity and convexity for discrete fractional difference operators.

13:30-13:50 Carla M. Pinto
Fractional model of typical stages in HIV epidemics.

14:00-14:20 Ricardo Almeida
The Caputo-Katugampola fractional derivative: properties and optimization problems.

14:30-14:50 Hegagi Mohamed Ali
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
Duality of left and right fractional operators.

Rooms Mxyy are located in the Mathematics Department on floor x = 0, 1, 2; rooms Qxyy are located in the Chemistry Department on the ground floor; rooms F-1yy are located in the Physics Department, basement floor.
Special Session 22
Geometric Analysis

Friday June 12, 2015 – Room M031

9:30-10:20 Ambrozio
Three-dimensional static manifolds with positive scalar curvature.

10:20-11:00 Coffee/Tea Break

11:00-11:50 Fine
A gauge theoretic approach to Einstein 4-manifolds.

Friday June 12, 2015 – Room M031

13:30-14:20 Sharp
Compactness theorems for minimal hypersurfaces with bounded index.

14:30-15:20 Wang
Geometry of two-dimensional self-shrinkers.

Saturday June 13, 2015 – Room M031

9:30-10:20 Carlotto
Variations on the Bernstein problem in asymptotically flat spaces.

10:20-11:00 Coffee/Tea Break

11:00-11:50 Abreu
Scalar flat Kähler-Sasaki metrics on toric symplectic cones.

Saturday June 13, 2015 – Room M031

13:30-14:20 Cannas da Silva
Lagrangian correspondences - a toric case study.

14:30-15:20 Salavessa
Cheng’s type comparison results for the principal eigenvalue of a $V$-drift Laplacian on a Riemannian manifold.

---

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.
Special Session 23
Geometric Aspects of Harmonic Analysis

Wednesday June 10, 2015 – Room M030

13:00-13:20 Antonio Córdoba
Pointwise estimates for fractional laplacians.
abstract # 1111-42-316

13:30-13:50 Stefan Steinerberger
A rigidity phenomenon for the Hardy-Littlewood maximal function.
abstract # 1111-26-171

14:00-14:20 Kevin Hughes
Lacunary averages for discrete hypersurfaces.
abstract # 1111-42-242

14:30-14:50 Mariusz Mirek
$\ell^p(\mathbb{Z}^d)$ boundedness for discrete operators of Radon types: maximal and variational estimates.
abstract # 1111-42-626

15:00-15:20 Emanuel Carneiro
Gaussian subordination and the weighted Beurling-Selberg extremal problem.
abstract # 1111-42-665

Thursday June 11, 2015 – Room M030

9:00-9:20 Jonathan Bennett
Regularity and the Brascamp-Lieb constant.
abstract # 1111-44-632

9:30-9:50 Taryn Flock
On extremizers of certain inequalities for the k-plane transform.
abstract # 1111-42-662

10:00-10:20 Francesco Di Plinio
A Calderon-Zygmund decompositions for multiple frequencies and applications.
abstract # 1111-42-609

10:20-11:00 Coffee/Tea Break

11:00-11:20 Victor Lie
Extremizers for the 2D Kakeya problem.
abstract # 1111-05-812

11:30-11:50 Michael Bateman
Inverse 2D Kakeya theorems.
abstract # 1111-05-717

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.
Friday June 12, 2015 – Room M005

13:00-13:20 Anthony Carbery
The magnitude of balls in Euclidean spaces – an application of analysis to the theory of enriched categories.

13:30-13:50 Marina Iliopoulou
Kakeya-type questions and polynomial partitioning.

14:00-14:20 Camil Muscalu
Higher singular integrals.

14:30-14:50 Eyvindur Palsson
Finite point configurations.

15:00-15:20 Jim Wright
Classical inequalities of Paley and Zygmund: higher dimensional variants.

Saturday June 13, 2015 – Room M005

9:00-9:20 Alexander Volberg
Integrating non-linear PDE to prove some sharp weak type estimates in harmonic analysis.

9:30-9:50 Maria Carmen Reguera
Weighted theory for the Bergman projection.

10:00-10:20 Jacek Dziubanski
On certain characterizations of Hardy spaces associated with some Schrödinger operators.

10:20-11:00 Coffee/Tea Break

11:00-11:20 Vjekosl Kovac
On some multilinear operators with general dilation invariances.

11:30-11:50 Po-Lam Yung
A critical Sobolev embedding for the hyperbolic spaces.

12:00-12:20 Damiano Foschi
TBA

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.
Special Session 24
Geometric Spectral Theory

Wednesday June 10, 2015 – Room M031

9:30-10:20  Juan Gil  
Spectra of singular elliptic operators on graphs.
no abstract

10:20-11:00  Coffee/Tea Break

11:00-11:50  Eveline Legendre  
The first eigenvalue of compact toric Kähler manifold.  
abstract # 1111-58-712

Thursday June 11, 2015 – Room M031

9:30-10:20  Carolyn Gordon  
Isospectrality of Dirichlet-to-Neumann operators.  
abstract # 1111-58-714

10:20-11:00  Coffee/Tea Break

11:00-11:50  Alexandre Girouard  
The Steklov spectrum: asymptotics and invariants.  
abstract # 1111-58-716

Thursday June 11, 2015 – Room M031

13:30-14:20  Craig Sutton  
Hearing the length spectrum of a compact Lie group.  
abstract # 1111-58-718

14:30-15:20  Alejandro Uribe  
The asymptotic pseudospectrum and numerical range of complex potentials on Zoll mani-
no abstract
folds.

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.
### Special Session 25
#### Geometrical and Enumerative Structures in Supersymmetry

**Wednesday June 10, 2015 – Room Q010**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:20</td>
<td>Daniel Persson</td>
<td>Fricke S-duality and BPS-state counting.</td>
</tr>
<tr>
<td>9:30-9:50</td>
<td>Sergei Alexandrov</td>
<td>Symmetries of string compactifications and generalization of Freed-Witten anomaly.</td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>Susanne Reffert</td>
<td>Deformed supersymmetric gauge theories from string and M-theory.</td>
</tr>
<tr>
<td>10:20-11:00</td>
<td>Coffee/Tea Break</td>
<td></td>
</tr>
<tr>
<td>11:00-11:20</td>
<td>Ricardo Couso-Santamaria</td>
<td>The theory of resurgence in matrix models and topological strings.</td>
</tr>
<tr>
<td>11:30-11:50</td>
<td>Constantinos Papageorgakis</td>
<td>Instanton operators in 5D gauge theories.</td>
</tr>
</tbody>
</table>

**Friday June 12, 2015 – Room Q019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:20</td>
<td>Katrin Wendland</td>
<td>Supersymmetry decomposes the virtual bundle that underlies the elliptic genus.</td>
</tr>
<tr>
<td>9:30-9:50</td>
<td>Sameer Murthy</td>
<td>Little string theories, Umbral moonshine and mock modular forms.</td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>Sergei Gukov</td>
<td>Counting RG flows.</td>
</tr>
<tr>
<td>10:20-11:00</td>
<td>Coffee/Tea Break</td>
<td></td>
</tr>
<tr>
<td>11:00-11:20</td>
<td>João Gomes</td>
<td>Localization in supergravity and exact holography.</td>
</tr>
<tr>
<td>11:30-11:50</td>
<td>Stefano Cremonesi</td>
<td>The Coulomb branch of 3d N = 4 gauge theories and the moduli space of instantons.</td>
</tr>
</tbody>
</table>

*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.*
### Saturday June 13, 2015 – Room F-119

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Abstract Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-13:20</td>
<td>Lotte Hollands</td>
<td>Opers, spectral networks and the $T^3$ theory.</td>
<td><a href="#">abstract # 1111-81-227</a></td>
</tr>
<tr>
<td>13:30-13:50</td>
<td>Hans Jockers</td>
<td>Phases of gauged linear sigma models and homological projective duality for Calabi-Yau manifolds.</td>
<td><a href="#">abstract # 1111-81-685</a></td>
</tr>
<tr>
<td>14:00-14:20</td>
<td>Abhijit Gadde</td>
<td>Exact solutions of 2d supersymmetric gauge theories.</td>
<td><a href="#">abstract # 1111-81-435</a></td>
</tr>
<tr>
<td>14:30-14:50</td>
<td>Anindya Dey</td>
<td>Mirror symmetry, partition function and gauged linear quivers.</td>
<td><a href="#">abstract # 1111-81-439</a></td>
</tr>
<tr>
<td>15:00-15:20</td>
<td>Emanuel Scheidegger</td>
<td>Topological strings and modularity.</td>
<td><a href="#">abstract # 1111-14-631</a></td>
</tr>
</tbody>
</table>

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*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.*
Special Session 26
Heteroclinic Cycles and Networks: Stability and Dynamics

Thursday June 11, 2015 – Room M219

9:00-9:50 Mike J. Field
Realizing a heteroclinic network in a homogeneous or heterogeneous identical cell system.

10:00-10:20 Jurgen Knobloch
Perturbations of homoclinic snaking scenarios.

10:20-11:00 Coffee/Tea Break

11:00-11:20 Alastair Rucklidge
Travelling waves in spatial Rock-Paper-Scissors.

11:30-11:50 Olga Podvigina
Simple and pseudo-simple heteroclinic cycles in ienne^4.

Friday June 12, 2015 – Room M219

9:00-9:20 Isabel Labouriau
Dynamics near heteroclinic networks with saddle-foci.

9:30-9:50 Andrey Shilnikov
Quest into homoclinic chaos.

10:00-10:20 Jonathan Dawes
Frequency locking near heteroclinic cycles.

10:20-11:00 Coffee/Tea Break

11:00-11:20 Santiago Ibáñez
Dynamics around a network of bifocal homoclinic orbits.

11:30-11:50 Roberto Barrio
Homoclinic and Heteroclinic phenomena in single neuron models and in small neuron networks.

Rooms $M_{xyy}$ 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 M219

13:00-13:20 Manuela Aguiar
Heteroclinic cycles and networks in coupled cell systems.

13:30-13:50 Alexander Lohse
Existence and stability of elementary heteroclinic networks in $\mathbb{R}^4$.

14:00-14:20 Jens Rademacher
Pathwise unfolding of heteroclinic networks with periodic orbits.

14:30-15:20 Ale Jan Homburg
Codimension one homoclinic cycles.

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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.
Special Session 27
Higgs Bundles and Character Varieties

Wednesday June 10, 2015 – Room M005

13:00-13:20 Vicente Muñoz
Geometric techniques for character varieties.

13:30-13:50 Graeme Wilkin
Morse theory for Higgs bundles.

14:00-14:20 Sean Lawton
Homotopy groups of character varieties.

14:30-14:50 Steven Rayan
Hyperpolygons and Hitchin systems.

15:00-15:20 Oscar García-Prada
Parabolic Higgs bundles and representations of the fundamental group of a punctured surface.

Thursday June 11, 2015 – Room M005

9:00-9:20 Laura Schaposnik
Higgs bundles, spectral data, and applications.

9:30-9:50 Marina Logares
Bohr-Sommerfeld Lagrangians for the moduli space of Higgs bundles.

10:00-10:20 Alfonso Zamora
GIT characterizations of Harder-Narasimhan filtrations.

10:20-11:00 Coffee/Tea Break

11:00-11:20 Ana Peon-Nieto
Quasi-split real groups and the Hitchin map.

11:30-11:50 Javier Martínez
E-polynomials of the SL(2, C)-character varieties of surface groups.

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Friday June 12, 2015 – Room M122

9:00-9:20 Brian Collier
A mapping class group invariant parameterization of maximal $\text{Sp}(4, \mathbb{R})$ representations.

9:30-9:50 Hartmuth Weiss
Ends of moduli spaces of Higgs bundles.

10:00-10:20 Qiongling Li
Asymptotics of certain families of Higgs bundles.

10:20-11:00 Coffee/Tea Break

11:00-11:20 Susana Carvalho Ferreira
Schottky bundles.

11:30-11:50 Mario Garcia-Fernandez
Balanced metrics on twisted Higgs Bundles.

12:00-12:20 Richard Wentworth
Deligne pairings and holomorphic extension of analytic torsion.

Rooms $M_{x0y}$ 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.
Special Session 28
Higher Dimensional Algebra in Geometry and Quantum Field Theory

Wednesday June 10, 2015 – Room M004

13:00-13:50 Chenchang Zhu
Higher category for $L_\infty$-groupoids.
abstract # 1111-53-638

14:00-14:20 Christoph Wockel
Bisections of Lie groupoids as a link between infinite-dimensional and higher geometry.
abstract # 1111-22-726

14:30-14:50 Friedrich Wagemann
On the string Lie algebra.
abstract # 1111-18-107

15:00-15:20 Lucio Simone Cirio
A categorification of infinitesimal braidings and of Casimir Lie algebras.
abstract # 1111-16-562

Thursday June 11, 2015 – Room M004

13:00-13:50 Urs Schreiber
Obstruction theory for parameterized higher WZW-terms.
abstract # 1111-53-686

14:00-14:20 Christoph Schweigert
Symmetries and defects in three-dimensional topological field theory.
abstract # 1111-81-40

14:30-14:50 Jeffrey C. Morton
Transformation double groupoids in higher gauge theory.
abstract # 1111-18-576

15:00-15:20 John Huerta
Trigroups and $M$-theory.
abstract # 1111-18-592
Friday June 12, 2015 – Room M004

9:00-9:50 Christopher J. Schommer-Pries
Extended 3-dimensional topological field theories.

10:00-10:20 I. Runkel
Defects, orbifolds and spin.

10:20-11:00 Coffee/Tea Break

11:00-11:20 Thomas Nikolaus
Global equivariant homotopy theory.

11:30-11:50 Yaël Frégier
$L_\infty$ algebras governing simultaneous deformations in algebra and geometry.

Saturday June 13, 2015 – Room M004

13:00-13:50 Alberto S. Cattaneo
Perturbative BV-BFV theories on manifolds with boundary.

14:00-14:20 Aleksandar Mikovic
Canonical quantization of Poincare BFCG theory.

14:30-14:50 Paolo Aschieri
Noncommutative Chern-Simons gauge and gravity theories and their geometric Seiberg-Witten map.

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Special Session 29
History and Philosophy of Mathematics

Wednesday June 10, 2015 – Room M029

9:00-9:20  J.C. Domingues  
Cunha’s calculus in its times.  
abstract # 1111-01-480

9:30-9:50  F. Figueiredo  
The enlightened jesuit: Monteiro da Rocha (1734-1819) and the reformation of the University of Coimbra (1772).  
abstract # 1111-01-490

10:00-10:20  H. Pinto  
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.  
abstract # 1111-01-541

10:20-11:00 Coffee/Tea Break

11:00-11:20  A.P. Martins  
Portuguese life assurance companies in the 19th century: contributions by Cláudio Adriano da Costa on premium tables. A pioneering case?  
abstract # 1111-62-378

11:30-11:50  E.M. Pinho  
In search of its place. The teaching of Descriptive Geometry in Porto in the nineteenth century.  
abstract # 1111-01-608

12:00-12:20  L. Saraiva  
The participation of Portuguese mathematicians in the first Iberian Congresses for the Progress of Science (1921-1932).  
abstract # 1111-01-391

Thursday June 11, 2015 – Room M029

9:00-9:20  M. Blanco  
Edmund Stone and the study of mathematical instruments: of the use of the “English sector” in trigonometry.  
abstract # 1111-01-84

9:30-9:50  M. Zack  
Lisbon, London and the mathematics of materials.  
abstract # 1111-01-331

10:00-10:20  R. Santos  
Continuous probabilities, random points, Bernoulli’s theorems, and geometric probability applications.  
abstract # 1111-01-432

10:20-11:00 Coffee/Tea Break

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.
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 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.
### Special Session 30
Holomorphic Dynamics

**Wednesday June 10, 2015 – Room F-120**

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<th>Speaker</th>
<th>Title</th>
<th>Abstract #</th>
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<tbody>
<tr>
<td>9:00-9:20</td>
<td>Mitsuhiro Shishikura</td>
<td>Smoothness of hairs for some entire functions.</td>
<td>1111-37-804</td>
</tr>
<tr>
<td>9:30-9:50</td>
<td>Saeed Zakeri</td>
<td>Conformal fitness and uniformization of holomorphically moving disks.</td>
<td>1111-37-751</td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>Mónica Moreno-Rocha</td>
<td>Connectivity of Julia sets for elliptic functions.</td>
<td>1111-30-396</td>
</tr>
<tr>
<td>10:20-11:00</td>
<td><strong>Coffee/Tea Break</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00-11:20</td>
<td>Christian Henriksen</td>
<td>Fine structure of Herman rings.</td>
<td>1111-37-822</td>
</tr>
<tr>
<td>11:30-11:50</td>
<td>David Martí</td>
<td>Escaping Fatou components of transcendental self-maps of the punctured plane.</td>
<td>1111-37-687</td>
</tr>
</tbody>
</table>

**Thursday June 11, 2015 – Room F-120**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Abstract #</th>
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<tbody>
<tr>
<td>13:00-13:20</td>
<td>Pascale Roesch</td>
<td>Newton methods.</td>
<td>1111-37-283</td>
</tr>
<tr>
<td>13:30-13:50</td>
<td>Boguslawa Karpinska</td>
<td>Absorbing domains for holomorphic maps I.</td>
<td>1111-37-121</td>
</tr>
<tr>
<td>14:00-14:20</td>
<td>Krzysztof Baranski</td>
<td>Absorbing domains for holomorphic maps II.</td>
<td>1111-37-122</td>
</tr>
<tr>
<td>14:30-14:50</td>
<td>Linda Keen</td>
<td>Shell components of transcendental meromorphic maps.</td>
<td>1111-37-321</td>
</tr>
<tr>
<td>15:00-15:20</td>
<td>Bastien Rossetti</td>
<td>Characterization of postcritically finite ramified coverings by finite planar graphs.</td>
<td>1111-37-681</td>
</tr>
</tbody>
</table>

*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.*
Friday June 12, 2015 – Room F-120

9:00-9:20 Carsten Petersen
On quasi-conformal (in-)compatibility of satellite copies of the Mandelbrot set.

9:30-9:50 Gwyneth Stallard
Commuting functions and multiply connected wandering domains.

10:00-10:20 Adam Epstein
Generalizing Douady’s magic formula.

10:20-11:00 Coffee/Tea Break

11:00-11:20 Núria Fagella
Connectivity of Julia sets of Newton maps: a unified approach (II).

11:30-11:50 Vasiliki Evdoridou
Uniform rates of escape of transcendental entire functions.

Saturday June 13, 2015 – Room F-120

13:00-13:20 Phil Rippon
Escaping boundary points of Baker domains.

13:30-13:50 Masashi Kisaka
Baby Mandelbrot sets are born in Julia sets.

14:00-14:20 Antonio Garijo
On McMullen-like mappings.

14:30-14:50 Jinsong Zeng
Criterion for rays landing together.

15:00-15:20 Arnaud Cheritat
Siegel disks of degree 3 polynomials.

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.
Special Session 31
Homogenization and Its Contemporary Stochastic Aspects

Wednesday June 10, 2015 – Room F-119

13:00-13:50 Guy Bouchitte
Diffraction by random nanorods structures.
abstract # 1111-35-380

14:00-14:50 Antoine Gloria
Quantitative homogenization via weighted nonlocal concentration inequalities.
abstract # 1111-35-412

15:00-15:20 Elisa Davoli
Homogenization of integral energies under periodically oscillating differential constraint.
abstract # 1111-49-60

Thursday June 11, 2015 – Room F-119

9:00-9:50 Stefan Neukamm
Quantitative stochastic homogenization: bounds on the corrector in the discrete, non-symmetric case.
abstract # 1111-35-414

10:00-10:20 Marco Morandotti
Homogenization of functionals with linear growth in the context of $A$-quasiconvexity.
abstract # 1111-35-50

10:20-11:00 Coffee/Tea Break

11:00-11:20 Ana M. Ribeiro
An Homogenization Result in $W^{1,p} \times L^q$.
abstract # 1111-49-725

11:30-11:50 Carolin Kreisbeck
Heterogeneous thin films: homogenization and dimension reduction of functionals with differential constraints.
abstract # 1111-49-332

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.
### Friday June 12, 2015 – Room F-119

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Abstract Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-13:50</td>
<td>Charles Smart</td>
<td>TBA</td>
<td>[no abstract]</td>
</tr>
<tr>
<td>14:00-14:50</td>
<td>Scott Armstrong</td>
<td>TBA</td>
<td>[no abstract]</td>
</tr>
<tr>
<td>15:00-15:20</td>
<td>Elvira Zappale</td>
<td>Homogenization for unbounded and supremal functionals.</td>
<td>[abstract # 1111-49-294]</td>
</tr>
</tbody>
</table>

### Saturday June 13, 2015 – Room F-119

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Abstract Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:50</td>
<td>Andrey Piatnitski</td>
<td>TBA</td>
<td>[no abstract]</td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>Rita Ferreira</td>
<td>Spectral analysis in thin tubes with axial heterogeneities.</td>
<td>[abstract # 1111-35-442]</td>
</tr>
<tr>
<td>10:20-11:00</td>
<td><strong>Coffee/Tea Break</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00-11:50</td>
<td>Alexei Novikov</td>
<td>Homogenization in stationary fluid flows.</td>
<td>[abstract # 1111-35-58]</td>
</tr>
</tbody>
</table>

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*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.*
Special Session 32  
Homological and Combinatorial Commutative Algebra

Wednesday June 10, 2015 – Room M107

13:00-13:20 Ragnar Buchweitz  
A representation generator for simple curve singularities.  
abstract # 1111-13-611

13:30-13:50 Alex Constantinescu  
Hilbert schemes, Groebner cells, and extension algebras.  
abstract # 1111-13-743

14:00-14:20 Rafael Villarreal  
Projective Segre codes.  
abstract # 1111-13-204

14:30-14:50 Anurag Singh  
Frobenius action on the cohomology of thickenings.  
abstract # 1111-13-497

15:00-15:20 Matteo Varbaro  
Linear syzygies and regularity.  
abstract # 1111-13-469

Thursday June 11, 2015 – Room M107

9:00-9:20 Martina Kubitzke  
A generalized balanced lower bound theorem for balanced polytopes.  
abstract # 1111-13-518

9:30-9:50 Maria Evelina Rossi  
The structure of the inverse system of Gorenstein local rings.  
abstract # 1111-13-452

10:00-10:20 Antonio Macchia  
On the ideal of orthogonal representations of a graph in $\mathbb{R}^2$.  
abstract # 1111-13-598

10:20-11:00 Coffee/Tea Break

11:00-11:20 Leo Alonso  
Hopf algebroids belong in commutative algebra.  
abstract # 1111-14-753

11:30-11:50 Sandra Spiroff  
Connected components, $S_2$-ifications, and module decompositions.  
abstract # 1111-13-387

Rooms Mxxy 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.
Friday June 12, 2015 – Room M107

9:00-9:20 Pedro Macias Marques  
*Symmetric decomposition of the associated graded algebra of a Gorenstein Artinian algebra.*  

9:30-9:50 Santiago Zarzuela  
*Computing local cohomology by using spectral sequences.*

10:00-10:20 Henrik Holm  
*The structure of balanced big CM modules over CM rings.*  

10:20-11:00 Coffee/Tea Break

11:00-11:20 Dolors Herbera  
*Big pure projective modules.*

11:30-11:50 Roger Wiegand  
*Betti diagrams and Hilbert functions of Koszul modules over short Gorenstein rings.*

---

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.
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

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 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.
Special Session 34
Linear Operators and Function Spaces

Wednesday June 10, 2015 – Room Q007

12:30-12:50 Raul Curto
Abrahamse’s Theorem for matrix-valued symbols and subnormal Toeplitz completions.

13:00-13:20 Natália Bebiano
Products of Laurent operators and fields of values.

13:30-13:50 Dariusz Cichon
A class of Hamburger moment sequences.

14:00-14:20 Elizabeth Strouse
Mixed commutators and little product bmo.

14:30-14:50 Pawel Pietrzycki
A note on the equation $|C^n| = |C|^n$ and composition operators.

15:00-15:20 Sónia Carvalho
On derivatives and norms of generalized matrix functions and respective symmetric powers.

Thursday June 11, 2015 – Room Q007

9:00-9:20 Michael Dritschel
Realizations via preorderings with application to the Schur Class.

9:30-9:50 Franciszek Hugon Szafraniec
Coherent states without measure.

10:00-10:20 Zenon Jablonski
Quasinormality of unbounded operators.

10:20-11:00 Coffee/Tea Break

11:00-11:20 Roland Duduchava
Mellin convolution equations in Bessel potential spaces.

11:30-11:50 M. Laura Arias
On some properties of the additivity of operators ranges.

12:00-12:20 Alejandra Maestripieri
Optimal inverses and abstract splines.

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.
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 $C^*$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>
$\ell_p$-Extensions of operator ideals and $\alpha$-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 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.
Special Session 35
Low Dimensional Topology and Its Relationships with Physics

Thursday June 11, 2015 – Room M027

9:00-9:20  Mina Aganagic  
*Knots and mirror symmetry.*  
abstract # 1111-81-821

9:30-9:50  John Barrett  
*State sum models and spin structures.*  
abstract # 1111-81-823

10:00-10:20  Sergei Gukov  
*Categorification of complex Chern-Simons theory.*  
abstract # 1111-54-639

10:20-11:00  **Coffee/Tea Break**

11:00-11:20  C. Meusburger  
*Topological lattice models as quantum gauge theories.*  
abstract # 1111-81-628

11:30-11:50  F. Toppan  
*Conformal Galilei invariant dynamics.*  
abstract # 1111-35-66

Friday June 12, 2015 – Room M027

13:00-13:20  Hugh M. Hilden  
*Superregular tessellations and universal groups.*  
abstract # 1111-57-19

13:30-13:50  John Bryden  
*Representation rings of the Artin braid groups.*  
no abstract

14:00-14:20  Nuno Franco  
*Syllable permutations and hyperbolic Lorenz knots.*  
abstract # 1111-37-526

14:30-14:50  J. Nogueira  
*Knots with all surfaces essential in their complements.*  
abstract # 1111-57-347

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.
Saturday June 13, 2015 – Room M027

9:00-9:20  L. H. Kauffman  
Majorana particles, quantum computing and the Dirac equation.  
abstract # 1111-57-156

9:30-9:50  J. Vicary  
Topological foundations for quantum computation.  
abstract # 1111-81-677

10:00-10:20  H. Dye  
Bounding the number of components of a state of the Jones polynomial and its dual for knots in surfaces.  
abstract # 1111-57-81

10:20-11:00  Coffee/Tea Break

11:00-11:20  A. Kastner  
A Rasmussen invariant for virtual knot cobordisms.  
abstract # 1111-54-154

11:30-11:50  M. Silvero  
Strongly quasipositive links and their Conway polynomials.  
abstract # 1111-54-119

Saturday June 13, 2015 – Room M027

13:00-13:20  S. Kamada  
Qualgebras, branched braids and branched links.  
abstract # 1111-57-51

13:30-13:50  N. Kamada  
A generalization of the JKSS invariant to twisted knots.  
abstract # 1111-57-52

14:00-14:20  Jun Ge  
Minimal sufficient sets of colors and minimum number of colors.  
abstract # 1111-57-287

14:30-14:50  Pedro Lopes  
Hard minimum number of colors.  
no abstract

15:00-15:20  Stathis Antoniou  
Extending topological surgery to natural processes.  
no abstract

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.
## Special Session 36
### Mathematical Models for Materials

**Wednesday June 10, 2015 – Room Q019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Abstract Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-13:20</td>
<td>Elisa Davoli</td>
<td>Multiscale homogenization in Kirchhoff’s nonlinear plate theory.</td>
<td><a href="#">Abstract # 1111-49-64</a></td>
</tr>
<tr>
<td>13:30-14:20</td>
<td>Valeriy Slastikov</td>
<td>2D point defects in nematic liquid crystals.</td>
<td><a href="#">Abstract # 1111-49-507</a></td>
</tr>
<tr>
<td>14:30-14:50</td>
<td>Marco Barchiesi</td>
<td>Local invertibility in Sobolev spaces and applications.</td>
<td><a href="#">Abstract # 1111-49-596</a></td>
</tr>
<tr>
<td>15:00-15:20</td>
<td>Gurgen Hayrapetyan</td>
<td>Sharp interface evolution in amphiphilic systems.</td>
<td><a href="#">Abstract # 1111-35-802</a></td>
</tr>
</tbody>
</table>

**Friday June 12, 2015 – Room Q010**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Abstract Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-13:50</td>
<td>Giovanni Leoni</td>
<td>On slow motion for phase transitions.</td>
<td><a href="#">Abstract # 1111-35-24</a></td>
</tr>
<tr>
<td>14:00-14:20</td>
<td>Graça Carita</td>
<td>Variational problem of plastic surgery.</td>
<td><a href="#">Abstract # 1111-35-646</a></td>
</tr>
<tr>
<td>14:30-14:50</td>
<td>Marco Morandotti</td>
<td>Dynamics for systems of screw dislocations.</td>
<td>no abstract</td>
</tr>
<tr>
<td>15:00-15:20</td>
<td>José Matias</td>
<td>A dimension reduction result in the context of Structured Deformations.</td>
<td>no abstract</td>
</tr>
</tbody>
</table>

**Saturday June 13, 2015 – Room Q010**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Abstract Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-13:50</td>
<td>Matteo Negri</td>
<td>BV evolutions in phase field fracture.</td>
<td><a href="#">Abstract # 1111-74-184</a></td>
</tr>
<tr>
<td>14:00-14:20</td>
<td>Anna Zemlyanova</td>
<td>Curvature-dependent surface tension in modelling of fracture.</td>
<td><a href="#">Abstract # 1111-74-34</a></td>
</tr>
<tr>
<td>14:30-15:20</td>
<td>Irene Fonseca</td>
<td>Second order gamma-convergence for the Modica Mortola functional.</td>
<td><a href="#">Abstract # 1111-49-69</a></td>
</tr>
</tbody>
</table>

Rooms Mxxy 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.
Special Session 37
Mathematical Models in Epidemiology

Thursday June 11, 2015 – Room M109

13:00-13:20 Nicholas F. Britton  
Controlling infectious disease in a structured population.  
abstract # 1111-92-724

13:30-13:50 Abderrahman Iggidr  
On the estimation of susceptible proportions in a dengue epidemic system.  
abstract # 1111-93-246

14:00-14:20 Maira Aguiar  
Modelling dengue fever epidemiology: complex dynamics and its implication for data analysis.  
abstract # 1111-37-660

14:30-14:50 Claudia Torres Codeço  
Mathematical models for dengue nowcasting.  
abstract # 1111-92-399

15:00-15:20 Helio Schechtman  
Stage-structured model for Aedes Aegypti and Wolbachia interaction.  
abstract # 1111-92-301

Friday June 12, 2015 – Room M109

9:00-9:20 Nicolas Bacaer  
A stochastic epidemic model in a periodic environment.  
abstract # 1111-92-281

9:30-9:50 Gabriela Gomes  
A missing dimension in measures of disease intervention impacts.  
abstract # 1111-92-43

10:00-10:20 Carlota Rebelo  
Persistence in seasonally forced epidemiological models.  
abstract # 1111-34-325

10:20-11:00 Coffee/Tea Break

11:00-11:20 Daniel Villela  
Mathematical model of imperfect testing of individuals for infectious diseases.  
abstract # 1111-92-388

11:30-11:50 Nico Stollenwerk  
Chaos and noise in population biology: the case study of dengue fever epidemiology, modelling and data analysis.  
abstract # 1111-60-658

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.
Saturday June 13, 2015 – Room M109

9:00-9:20 Ana R. Carvalho  
Effects of treatment, awareness and condom use in a coinfection model for HIV and HCV in MSM.

9:30-9:50 Flávio Codeço Coelho  
Estimating the attack ratio of dengue epidemics under time-varying force of infection using aggregated notification data.

10:00-10:20 Filipa Nunes Nogueira  
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  
Vaccination in seasonal epidemics with temporary immunity: optimal strategy and rational behavior.

11:30-11:50 José Martins  
A game theoretical analysis of vaccination games.

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Rooms Mxxy 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.
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_{xyy} 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-1_{yy} are located in the Physics Department, basement floor.*
Friday June 12, 2015 – Room Q019

13:00-13:50 Robert Beig  
Relativistic celestial mechanics of elastic bodies.  
abstract # 1111-74-136

14:00-14:50 Raúl Vera  
Revisiting Hartle’s model using perturbed matching theory to second order: amending the change in mass.  
abstract # 1111-83-594

15:00-15:20 S. Beheshti  
Harmonic maps, the Xanthopoulos conjecture and analysis of singularities in general relativity.  
abstract # 1111-83-476

Saturday June 13, 2015 – Room Q019

13:00-13:50 José M. M. Senovilla  
Umbilical properties of co-dimension two submanifolds.  
abstract # 1111-83-407

14:00-14:50 Miguel Sanchez  
Wind Finsler structures: from Zermelo’s navigation to the causality of spacetimes.  
abstract # 1111-53-47

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.
Special Session 39
Mathematics and the Arts

**Wednesday June 10, 2015 – Room M005**

9:00-9:20 Carolyn A. Yackel
*An analysis of fair isle knitting.*

9:30-9:50 Susan Goldstine
*Thinking outside the torus: new directions in bead crochet.*

10:00-10:20 Craig S. Kaplan
*Islamic star patterns from X-tiles.*

10:20-11:00 **Coffee/Tea Break**

11:00-11:20 Penousal Machado
*Evolutionary art: beyond interactive evolution.*

11:30-11:50 Carlota Simões
*Camoens, Ovid and Mathematics.*

**Thursday June 11, 2015 – Room M005**

13:00-13:20 Rinus Roelofs
*Leonardo’s elevated polyhedra – extended to flat patterns – models.*

13:30-13:50 John M. Sullivan
*Visualizations of tight knots and links.*

14:00-14:20 Konrad Polthier
*Lifted domain coloring.*

14:30-14:50 Francesco De Comité
*Yvon-Villarceau circles equivalents on Dupin cyclides.*

15:00-15:20 Douglas Dunham
*Repeating patterns on triply periodic polyhedra.*

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*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.*
Friday June 12, 2015 – Room M005

9:00-9:20 Radmila Sazdanovic
Visual thinking in mathematics.
[abstract # 1111-00-397]

9:30-9:50 Anne Mendes Burns
Variation of parameters: visual proof in complex analysis.
[abstract # 1111-00-77]

10:00-10:20 Michael J. Field
Visualizing complex dynamics and structure in dynamical systems.
[abstract # 1111-37-93]

10:20-11:00 Coffee/Tea Break

11:00-11:20 Pedro J. Freitas
The mathematical problems of Almada Negreiros.
[abstract # 1111-01-293]

11:30-11:50 Maria Luisa Spreafico
Modelling vaults: from laser scanning techniques to origami.
[abstract # 1111-51-33]

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.
Special Session 40
New Trends in Automata Groups and Semigroups

**Wednesday June 10, 2015 – Room M007**

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

**Friday June 12, 2015 – Room M007**

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

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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.
### Saturday June 13, 2015 – Room M007

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:20</td>
<td>V. Nekrashevych</td>
<td><em>Automata groups and automatic sequences.</em></td>
</tr>
<tr>
<td>9:30-9:50</td>
<td>M. Picantin</td>
<td><em>From automatic semigroups to automaton semigroups.</em></td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>B. Steinberg</td>
<td><em>Algorithms for invertible transducers and automaton groups: a retrospective and problems.</em></td>
</tr>
<tr>
<td>10:20-11:00</td>
<td></td>
<td><strong>Coffee/Tea Break</strong></td>
</tr>
<tr>
<td>11:00-11:20</td>
<td>C. Bleak</td>
<td><em>On the semi-decidability of the periodicity problem for elements of various groups.</em></td>
</tr>
<tr>
<td>11:30-11:50</td>
<td>E. Ventura</td>
<td><em>Automaton groups with unsolvable conjugacy problem.</em></td>
</tr>
</tbody>
</table>

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_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._
Special Session 41
New Trends in Representation Theory

Wednesday June 10, 2015 – Room M003

13:30-14:20 Alexander Kleshchev
Affine quasihereditary structures on KLR algebras.

14:30-15:20 Marko Stosic
Lie superalgebras and double affine Hecke algebras in colored HOMFLYPT knot invariants.

Thursday June 11, 2015 – Room M003

9:30-10:20 Marco Mackaay
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
Finitary 2-categories and their 2-representations.

Friday June 12, 2015 – Room M003

12:30-1:20 Julian Kulshammer
Boxes and filtered representation type of Schur algebras.

13:30-14:20 Ivan Yudin
Twisted products, stratifying ideals, and Schur algebras.

14:30-15:20 Maud De Visscher
Representation theory of the partition algebra.

Rooms Mxxy 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.
Saturday June 13, 2015 – Room M003

12:30-1:20  Robert Marsh  
*Rigid and Schurian modules over cluster-tilted algebras of tame type.*

13:30-14:20  Raquel Coelho Simões  
*Negative Calabi-Yau triangulated categories.*

14:30-15:20  Stephen Donkin  
*Composition factors of symmetric powers.*

---

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.
Special Session 42
Nonassociative Algebras and Related Topics

**Wednesday June 10, 2015 – Room M031**

13:00-13:50  Efim Zelmanov  
*On Jordan and Lie superalgebras.*  
abstract # 1111-17-659

14:00-14:20  Irene Paniello  
*Genetic coalgebras and cubic stochastic matrices.*  
abstract # 1111-17-622

14:30-14:50  Lina Oliveira  
*On the geometry of the unit ball in a JB*-triple.*  
abstract # 1111-17-620

15:00-15:20  Consuelo Martínez López  
*Some infinite dimensional (super)algebras and their representations.*  
abstract # 1111-17-383

**Thursday June 11, 2015 – Room M122**

13:00-13:50  Ivan Shestakov  
*The Freiheitssatz for generic Poisson algebras.*  
abstract # 1111-17-491

14:00-14:20  José María Pérez-Izquierdo  
*Non-associative universal enveloping algebras.*  
abstract # 1111-17-142

14:30-14:50  J. M. Casas  
*Central extensions of Leibniz algebras relative to the Liezation functor.*  
abstract # 1111-17-216

15:00-15:20  N. P. Rego  
*Semi-direct product of universal α-central extensions of Hom-Leibniz algebras.*  
abstract # 1111-17-106

*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.*
Friday June 12, 2015 – Room M226

9:00-9:20 Manuel Ladra
Non-abelian tensor product and homology of Lie superalgebras.

9:30-9:50 Pasha Zusmanovich
A small step in classification of simple Lie algebras in characteristic 2.

10:00-10:20 Xabier García-Martínez
Universal central extensions of Lie-Rinehart algebras.

10:20-11:00 Coffee/Tea Break

11:00-11:20 Said Benayadi
On para-Kähler Lie algebras.

11:30-11:50 Carlos Soneira Calvo
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
On some class of Malcev algebras.

9:30-9:50 Rodrigo L. Rodrigues
The additivity of Jordan derivable maps in alternative rings.

10:00-10:20 Seidon Alsaody
Composition algebras, triality, and automorphisms of algebraic groups.

10:20-11:00 Coffee/Tea Break

11:00-11:20 Christian Lomp
Essential extensions of simple modules over enveloping algebras of Lie superalgebras.

11:30-11:50 Fernando Montaner
Local Goldie conditions on Jordan Algebras and the socle of their algebras of quotients.

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.
Special Session 43
Nonlinear Elliptic Systems and Applications

Wednesday June 10, 2015 – Room M226

9:00-9:50  Susanna Terracini  
*Existence and regularity of solutions to optimal partition problems involving Laplacian eigenvalues.*  

10:00-10:20  Benedetta Pellacci  
*Saturable Schrödinger equation and systems: existence and related topics.*  

10:20-11:00  **Coffee/Tea Break**

11:00-11:50  Alberto Farina  
*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  
*Interior and boundary singularities of solutions of quasilinear Hamilton-Jacobi equations.*  

10:00-10:20  Denis Bonheure  
*Mixed diffusion or mixed dispersion.*  

10:20-11:00  **Coffee/Tea Break**

11:00-11:20  Boyan Sirakov  
*Existence and classification theorems for elliptic systems in non-divergence form.*

11:30-11:50  Eugénio M. Rocha  
*Multiplicity results for elliptic problems in adapted Sobolev spaces.*

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.
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 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.
Special Session 44
Nonstandard Analysis and Applications

Wednesday June 10, 2015 – Room Q023

13:00-13:20 Imme van den Berg
A uniformly bounded nonstandard set theory.
abstract # 1111-03-224

13:30-13:50 Benno van den Berg
The proof theory of nonstandard analysis.
abstract # 1111-03-63

14:00-14:20 Bruno Dinis
Nonstandard intuitionistic interpretations.
abstract # 1111-03-584

14:30-14:50 Jose Chagas Roquette
Calculus with indiscernibility.
abstract # 1111-03-504

15:00-15:20 Abdelmadjid Boudaoud
A nonstandard construction of an $\aleph_\alpha$-universal set.
abstract # 1111-03-416

Thursday June 11, 2015 – Room Q023

13:00-13:20 Marc Diener
Distribution of implicit interest rate for microcredit.
abstract # 1111-60-793

13:30-13:50 João Paulo Teixeira
Global existence and regularity of periodic and stationary solutions of the $n$-dimensional Navier-Stokes equations via discretizations.
abstract # 1111-35-305

14:00-14:20 Fernando J. Moreira
Ergodic properties for non invariant measures.
abstract # 1111-37-759

14:30-14:50 Júlia Justino
Solution of linear flexible systems.
abstract # 1111-15-371

15:00-15:20 Nam Van Tran
On singular and homogeneous flexible systems of linear equations.
abstract # 1111-15-232

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.
Friday June 12, 2015 – Room M004

13:00-13:20  Augustin Fruchard
Composite asymptotic expansions for differential and difference equations.

13:30-13:50  Nadir Sari
Periodic orbits of a seasonal SIS epidemic model with migration.

14:00-14:20  Tewfik Sari
MacArthur’s consumer-resource model.

14:30-14:50  Claude E. Lobry
Switched dynamical systems and persistence in certain models of trophic interaction.

15:00-15:20  Luis Gonzaga Albuquerque
Smooth models of discontinuous systems.

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.
Special Session 45
The Notion of Proof

Wednesday June 10, 2015 – Room M004

9:00-9:20 Reinhard Kahle/Jesse Alama
The notion of proof revisited.  
abstract # 1111-03-343

9:30-10:20 Thomas Hales
The formal proof of the Kepler Conjecture.  
abstract # 1111-03-637

10:20-11:00 Coffee/Tea Break

11:00-11:50 Freek Wiedijk
TBA  
abstract # 1111-03-808

Thursday June 11, 2015 – Room M004

9:00-9:50 Angus John Macintyre
Proofs in PA (first-order Peano arithmetic).  
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
Eigenvariable conditions and the structure of proofs.  
abstract # 1111-03-684

Saturday June 13, 2015 – Room M004

9:30-10:20 Victor Pambuccian
Provability in axiom systems for weak arithmetic and geometry without actual proofs.  
abstract # 1111-03-135

10:20-11:00 Coffee/Tea Break

11:00-11:50 N. A. Vavilov
Complexity and reliability of proofs and computations.  
abstract # 1111-03-701

12:00-12:20 General discussion session  
no abstract

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Special Session 46
Operator Theory and Its Applications

Wednesday June 10, 2015 – Room Q023

9:00-9:20 Spitkovsky
Toeplitz operators of finite interval type and the table method.
abstract # 1111-47-289

9:30-9:50 Bastos
Representations for classes of nonlocal C*-algebras.
abstract # 1111-47-384

10:00-10:20 Yu. Karlovich
C*-algebras of Bergman type operators on polygonal domains.
abstract # 1111-47-493

10:20-11:00 Coffee/Tea Break

11:00-11:20 Câmara
Asymmetric truncated Toeplitz operators in the Hardy spaces of the half-plane.
abstract # 1111-47-247

11:30-11:50 Stovicek
A family of explicitly diagonalizable weighted Hankel matrices generalizing the Hilbert matrix.
abstract # 1111-15-393

12:00-12:20 Sakhnovich
Weyl theory for Dirac operators and applications to initial-boundary value problems for integrable wave equations.
abstract # 1111-47-62

Friday June 12, 2015 – Room Q023

12:30-12:50 Wendland
On the n-dimensional Oseen-Brinkman flow around an \( (n - 1) \)-dimensional solid obstacle.
abstract # 1111-31-206

13:00-13:20 Duduchava
Mixed boundary value problems for the Laplace-Beltrami equation.
abstract # 1111-35-198

13:30-13:50 Merzon
Sobolev’s and Keller-Blank’s formulas in scattering of plane waves by a wedge.
abstract # 1111-35-31

14:00-14:20 Zhevandrov
Water waves trapped by thin horizontal cylinders in one- and two-layer fluid.
abstract # 1111-76-324

14:30-14:50 A. Karlovich
Banach algebra of the Fourier multipliers on weighted Banach function spaces.
abstract # 1111-47-217

15:00-15:20 Carvalho
Index formulas for pseudodifferential operators on compactified domains.
abstract # 1111-47-602

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### Saturday June 13, 2015 – Room Q023

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

*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.*
Special Session 47
Orthogonal Polynomials and Integrable Systems

Wednesday June 10, 2015 – Room M219

13:00-13:20 Ana Foulquie
Orthogonal polynomial interpretation of $\Delta$-Toda and Volterra lattices.

13:30-13:50 Renato Alvarez-Nodarse
Generating recurrence and ladder-type relations for orthogonal polynomials and special functions with applications to quantum systems.

14:00-14:20 Erik Koelink
Matrix-valued orthogonal polynomials and spectral decompositions.

14:30-14:50 Henrik Pedersen
Asymptotic expansions and generalized Stieltjes functions.

15:00-15:20 Semyon Yakubovich
On the generalized Lebedev index transform.

Friday June 12, 2015 – Room M122

13:00-13:20 Kerstin Jordaan
Interlacing properties and bounds for zeros of $2\phi_1$ hypergeometric and little $q$-Jacobi polynomials.

13:30-13:50 Alfredo Deano
Asymptotics of kissing polynomials.

14:00-14:20 Mirta Castro
Matrix orthogonal polynomials and time-band limiting.

14:30-14:50 Franck Wielonsky
Lax pairs and Riemann-Hilbert problems for conjugate conductivity equations.

15:00-15:20 Walter Van Assche
Uniqueness of certain solutions of discrete Painlevé II.

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### Saturday June 13, 2015 – Room M122

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

*Rooms Mxxy 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.*
Special Session 48
Partial Differential Equations: Ambitious Mathematics for Real-life Applications

Wednesday June 10, 2015 – Room M226

13:00-13:20 Stefano Spirito
Renormalized solutions of 2D Euler equations.

13:30-13:50 Francesco Fanelli
A singular limit problem for viscous compressible fluids in presence of capillarity.

14:00-14:50 Raphaël Danchin
Mathematical analysis of a model for radiative flows.

15:00-15:20 Cleopatra Cristoforou
From hyperbolic balance laws to differential geometry.

Thursday June 11, 2015 – Room M226

13:00-13:20 Mehmet Ersoy
Block-Based Adaptive Mesh Refinement scheme based on numerical density of entropy production for conservation laws and applications.

13:30-13:50 Andrea Cangiani
Adaptive numerical solution of nonlinear convection-diffusion problems.

14:00-14:50 Konstantina Trivisa
On a nonlinear model for tumor growth with drug application.

15:00-15:20 Christiane Helzel
High-order finite volume methods for hyperbolic PDEs on Cartesian grids with embedded boundaries.

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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.
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<th>Title</th>
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<tbody>
<tr>
<td>13:00-13:50</td>
<td>Luigi C. Berselli</td>
<td>Multiphase flows in volcanology: modeling, theory and experiment.</td>
</tr>
<tr>
<td>14:00-14:20</td>
<td>Tomás Morales de Luna</td>
<td>Modeling sediment transport in shallow waters.</td>
</tr>
</tbody>
</table>

Rooms Mxyz 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.
### Special Session 49
Recent Advances in Variable Exponent Spaces and Non-linear Problems

#### Wednesday June 10, 2015 – Room M219

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:20</td>
<td>Alexander Meskhi</td>
<td>One-sided operators in grand variable exponent Lebesgue spaces.</td>
</tr>
<tr>
<td>9:30-9:50</td>
<td>Peter Hasto</td>
<td>Maximal operator in generalized Orlicz spaces.</td>
</tr>
<tr>
<td>10:00-10:20</td>
<td>Petteri Harjulehto</td>
<td>The Riesz potential in generalized Orlicz spaces.</td>
</tr>
<tr>
<td>10:20-11:00</td>
<td>Coffee/Tea Break</td>
<td></td>
</tr>
<tr>
<td>11:00-11:20</td>
<td>Alexi Yu. Karlovich</td>
<td>Maximally modulated Hilbert transform and its applications to pseudodifferential operators on variable Lebesgue spaces.</td>
</tr>
<tr>
<td>11:30-11:50</td>
<td>Henning Kempka</td>
<td>Variable exponent Lorentz spaces.</td>
</tr>
</tbody>
</table>

#### Thursday June 11, 2015 – Room M219

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-13:20</td>
<td>Ales Nekvinda</td>
<td>no abstract</td>
</tr>
<tr>
<td>14:00-14:20</td>
<td>Alberto Fiorenza</td>
<td>On “essentially variable” variable Lebesgue space problems.</td>
</tr>
<tr>
<td>14:30-14:50</td>
<td>Yoshihiro Sawano</td>
<td>Hardy spaces with variable exponents and generalized Campanato spaces.</td>
</tr>
<tr>
<td>15:00-15:20</td>
<td>David Edmunds</td>
<td>Approximation numbers of a Sobolev embedding.</td>
</tr>
</tbody>
</table>

*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.*
## Friday June 12, 2015 – Room M219

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Abstract ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00-13:20</td>
<td>Yongqiang Fu</td>
<td>Several kinds of variable exponent spaces.</td>
<td>abstract # 1111-46-96</td>
</tr>
<tr>
<td>14:00-14:20</td>
<td>Osvaldo Mendez</td>
<td>The eigenvalue problem for the modular $p(\cdot)$-Laplacian. Convergence analysis.</td>
<td>abstract # 1111-46-315</td>
</tr>
<tr>
<td>14:30-14:50</td>
<td>Tomasz Adamowicz</td>
<td>Topics in geometric function theory for variable exponent equations.</td>
<td>abstract # 1111-35-419</td>
</tr>
<tr>
<td>15:00-15:20</td>
<td>Vakhtang Kokilashvili</td>
<td>Approximation problems in the framework of new nonstandard Banach function spaces.</td>
<td>abstract # 1111-42-177</td>
</tr>
</tbody>
</table>

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*Rooms Mxyz* 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.
Special Session 50
Recurrence, Mixing and Fluctuations: Statistics of Dynamical Systems

Wednesday June 10, 2015 – Room F-119

9:30-9:50 Melbourne
Statistical properties for nonuniformly hyperbolic systems with slow contraction and expansion.

10:00-10:20 Holland
On Extremes, recurrence and record events in dynamical systems.

10:20-11:00 Coffee/Tea Break

11:00-11:20 Dobbs
Quasistatic dynamical systems.

11:30-11:50 Bruin
Sharp mixing rates via inducing w.r.t. general return times.

Thursday June 11, 2015 – Room F-119

13:30-13:50 Rodrigues
Stochastic stability and the representation of Markov chains by random maps.

14:00-14:20 Nicol
Almost sure invariance principle for sequential and non-stationary dynamical systems.

14:30-14:50 Duarte
Large deviation estimates for Markovian cocycles.

15:00-15:20 Varandas
Specification properties and thermodynamical properties of semigroups.

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.
Friday June 12, 2015 – Room F-119

9:30-9:50 Chazzottes  
*Approximation for the number of visits to balls for a class of non uniformly hyperbolic systems.*  
abstract # 1111-37-249

10:00-10:20 Climenhaga  
*Specification, statistical properties, and towers.*  
abstract # 1111-37-403

10:20-11:00 Coffee/Tea Break

11:00-11:20 Lopes Dias  
*Hyperbolic attractors for contracting polygonal billiards.*  
abstract # 1111-37-382

11:30-11:50 Aimino  
*Annealed and quenched central limit theorems for random dynamical systems.*  
abstract # 1111-37-341

Saturday June 13, 2015 – Room F-120

9:30-9:50 Vaienti  
*Extreme value theory for perturbed and contracting systems.*  
abstract # 1111-37-61

10:00-10:20 Thompson  
*Unique equilibrium states for the robustly transitive diffeomorphisms of Mané and Bonatti-Viana.*  
abstract # 1111-37-581

10:20-11:00 Coffee/Tea Break

11:00-11:20 Jordan  
*Phase transitions and multifractal analysis.*  
abstract # 1111-37-458

11:30-11:50 Pollicott  
*Ergodic properties of the Kusuoka measure.*  
abstract # 1111-37-505

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Special Session 51
Representation Theory and Quantum Groups

**Wednesday June 10, 2015 – Room M029**

- **13:00-13:50** Burkhard Kuelshammer  
  *The depth of subrings and subgroups.*  
  abstract # 1111-16-110

- **14:00-14:20** Alberto Hernandez  
  *Subgroup depth, algebraic modules and twisted coefficients.*  
  abstract # 1111-20-196

- **14:30-14:50** Sebastian Burciu  
  *On the depth of subgroups and semisimple Hopf subalgebras.*  
  abstract # 1111-16-229

- **15:00-15:20** Peter Schauenburg  
  *Frobenius-Schur indicators in group-theoretical fusion categories.*  
  abstract # 1111-18-733

**Thursday June 11, 2015 – Room M108**

- **13:00-13:50** Arvid Siqveland  
  *The noncommutative Serre’s theorem.*  
  abstract # 1111-17-117

- **14:00-14:20** Stef Caenepeel  
  *Hopf categories.*  
  abstract # 1111-16-453

- **14:30-14:50** Yorck Sommerhauser  
  *Triviality theorems for Yetter-Drinfel’d Hopf algebras.*  
  abstract # 1111-16-421

- **15:00-15:20** Mio Iovanov  
  *Incidence algebras, deformations and related monoidal structures.*  
  abstract # 1111-16-815

*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.*
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<td><em>Extension full subcategories in Lie theory.</em></td>
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<td>14:00-14:20</td>
<td>Anthony Giaquinto</td>
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<td>Arturo Pianzola</td>
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<td>Alex Stolin</td>
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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

9:30-9:50  Tigran Nagapetyan  
Variance reduced Monte Carlo path simulation method.  

abstract # 1111-60-128

10:00-10:20  Arnaud Lionnet  
Discretization of monotone BSDEs with polynomial drivers.  

abstract # 1111-65-112

10:20-11:00  **Coffee/Tea Break**

11:00-11:50  Aurelien Alfonsi  
Optimal transport bounds between the time-marginals of a multidimensional diffusion and its Euler scheme.  

abstract # 1111-60-92

**Thursday June 11, 2015 – Room F-117**

9:00-9:20  Jean-Francois P. Chassagneux  
Numerical approximation of switching problems.  

abstract # 1111-65-240

9:30-9:50  Adrien Richou  
Numerical stability analysis of the Euler scheme for Backward Stochastic Differential Equations.  

abstract # 1111-60-285

10:00-10:20  P. Parczewski  
On optimal approximation of Skorohod integrals.  

abstract # 1111-60-215

10:20-11:00  **Coffee/Tea Break**

11:00-11:50  Jose H. Blanchet  
Exact Sampling and Conditional Simulation of Max-Stable Processes.  

abstract # 1111-60-831

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Saturday June 13, 2015 – Room F-117

12:30-1:20 Denis Belomestny
Multilevel Monte Carlo path simulation for weak approximation scheme.

13:30-13:50 Xiaolu Tan
On the convergence of monotone scheme for fully nonlinear path-dependent PDE.

14:00-14:20 P. Turkedjie
Importance sampling for variance reduction in linear regression algorithms for BSDE.

14:30-14:50 Francisco Bernal
Extrapolation of higher-order numerical integrators for bounded diffusions.

15:00-15:20 Gonçalo dos Reis
Customized numerical schemes for FBSDEs.

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.
Special Session 53
Vector Bundles on Projective Varieties

**Wednesday June 10, 2015 – Room M006**

9:00-9:50 Enrique Arrondo
*Cohomological characterization of vector bundles.* no abstract

10:00-10:20 Daniele Faenzi
*Fano threefolds of genus 10 and Coble cubics.* abstract # 1111-14-678

10:20-11:00 Coffee/Tea Break

11:00-11:20 Abel Castorena
*Rank two vector bundles with canonical determinant and four sections on algebraic curves.* abstract # 1111-14-44

11:30-11:50 Emilia Mezzetti
*Linear spaces of matrices of constant rank and vector bundles.* abstract # 1111-14-368

**Thursday June 11, 2015 – Room M006**

13:00-13:50 Angela Ortega
*Higher rank Brill-Noether theory.* abstract # 1111-14-405

14:00-14:20 George Hitching
*Theta divisors of stable vector bundles with many maximal subbundles.* abstract # 1111-14-90

14:30-14:50 Ada Boralevi
*Orthogonal instantons and skew-Hamiltonian matrices.* abstract # 1111-14-317

15:00-15:20 Elena Angelini
*Torelli type results for logarithmic bundles of arrangements in $\mathbb{P}^n$.* abstract # 1111-14-409

*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.*
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<td>Pedro Macias Marques</td>
<td>Monads over projective varieties.</td>
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<td>Laura Costa</td>
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