



2015

10 - 13 June, Porto - Portugal
INTERNATIONAL MEETING

AMS / EMS / SPM
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mathematical / mathematical / portuguesa de
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Contributed Paper Session

Analysis and Equations

Wednesday June 10, 2015 – Room M120

- | | | |
|-------------|---|--|
| 13:30-13:40 | Ranjan Kumar Jana
<i>Recent developments in the study of generalized Mittag-Leffler function.</i> | abstract # 1111-44-441 |
| 13:45-13:55 | Antonio M. Caetano
<i>Compactness in quasi-Banach function spaces.</i> | abstract # 1111-46-473 |
| 14:00-14:10 | Ozgur Yildirim
<i>On stability of high order difference schemes for hyperbolic multipoint nonlocal boundary value problem.</i> | abstract # 1111-35-49 |
| 14:15-14:25 | Codruta Simona Stoica
<i>On the property of exponential splitting for skew-evolution cocycles in Banach spaces.</i> | abstract # 1111-34-463 |
| 14:30-14:40 | Piotr MichalBies
<i>Linear elliptic equations in variable Hölder spaces.</i> | abstract # 1111-35-351 |
| 14:45-14:55 | Amílcar Branquinho
<i>Deformed semi-classical discrete orthogonal polynomials.</i> | abstract # 1111-33-151 |

Rooms M120 and M121 are located on the first floor of the Mathematics Department.



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Contributed Paper Session

Geometry and Topology

Wednesday June 10, 2015 – Room M121

- | | | |
|-------------|--|--|
| 13:45-13:55 | Antonio Rieser
<i>A topological approach to data clustering.</i> | abstract # 1111-58-792 |
| 14:00-14:10 | Agnès Gadbled
<i>Toric constructions of monotone Lagrangian submanifolds in $\mathbb{C}P^2$ and $\mathbb{C}P^1 \times \mathbb{C}P^1$.</i> | abstract # 1111-53-651 |
| 14:15-14:25 | Michał Gaczkowski
<i>Variable Sobolev spaces on Riemannian manifolds.</i> | abstract # 1111-53-510 |
| 14:30-14:40 | Antonio De Nicola
<i>Hard Lefschetz Theorem for Sasakian manifolds.</i> | abstract # 1111-53-400 |
| 14:45-14:55 | Hisham Sati
<i>Ninebrane structures.</i> | abstract # 1111-55-797 |
| 15:00-15:10 | D. Roytenberg
<i>DG-manifolds are derived manifolds.</i> | abstract # 1111-53-729 |

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Contributed Paper Session

Semigroups

Thursday June 11, 2015 – Room M120

- | | | |
|-------------|--|--|
| 9:30-9:40 | Muhammad Inam
<i>A structural property of Adian inverse semigroups.</i> | abstract # 1111-20-211 |
| 9:45-9:55 | T. M. Quinteiro
<i>On monoids of finite partial isometries.</i> | abstract # 1111-20-579 |
| 10:00-10:10 | Vicente Pérez-Calabuig
<i>On the \mathfrak{F}-kernel of a finite semigroup.</i> | abstract # 1111-20-694 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:10 | Worachead Sommanee
<i>Rank and idempotent rank of order-preserving transformation semigroups with restricted range.</i> | abstract # 1111-20-669 |
| 11:15-11:25 | Kritsada Sangkhanan
<i>The regular part of a semigroup of linear transformations with restricted range.</i> | abstract # 1111-20-670 |

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Contributed Paper Session

Algebra

Thursday June 11, 2015 – Room M120

- | | | |
|-------------|--|--|
| 13:30-13:40 | Qimh Richey Xantcha
<i>On extensions of polynomial functors.</i> | abstract # 1111-13-799 |
| 13:45-13:55 | Chrystopher L. Nehaniv
<i>Coproducts for pointed transformation semigroups, pointed transformation monoids, pointed permutation groups and for partial transformation semigroups.</i> | abstract # 1111-20-641 |
| 14:00-14:10 | E. Cosme-Llópez
<i>Faithful and transitive monoid actions.</i> | abstract # 1111-20-675 |
| 14:15-14:25 | Camille Laurent-Gengoux
<i>About resolutions of Poisson singularities.</i> | abstract # 1111-20-720 |
| 14:30-14:40 | Andrew Douglas
<i>Subalgebras of semisimple Lie algebras.</i> | abstract # 1111-17-664 |
| 14:45-14:55 | Graça Soares
<i>When the C-determinantal range becomes real.</i> | abstract # 1111-15-745 |

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Contributed Paper Session Combinatorics, Polynomials, and Operators

Friday June 12, 2015 – Room M120

- | | | |
|-------------|---|--|
| 9:30-9:40 | John Barrett
<i>Matrix geometries and fuzzy spaces as finite spectral triples.</i> | abstract # 1111-81-824 |
| 9:45-9:55 | No talk will be delivered | |
| 10:00-10:10 | Juan D. Gil
<i>A recurrence relation for the Narayana numbers.</i> | abstract # 1111-05-795 |
| 10:20-11:00 | Coffee/Tea Break | |
| 11:00-11:10 | Rute Lemos
<i>Aczél type operator inequalities.</i> | abstract # 1111-15-771 |
| 11:15-11:25 | Zélia da Rocha
<i>A symbolic general method for deriving some semi-classical properties of perturbed second degree forms: the case of the Chebyshev form of second kind.</i> | abstract # 1111-12-565 |
| 11:30-11:40 | Kenier Castillo
<i>On polynomials with all their zeros on the unit circle.</i> | abstract # 1111-30-133 |
| 11:45-11:55 | Jayrold Provendido Arcede
<i>On the SDE differential form for backwards Itô integral.</i> | abstract # 1111-28-520 |

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Contributed Paper Session Applied Mathematics and Dynamical Systems

Friday June 12, 2015 – Room M120

- | | | |
|-------------|---|--|
| 13:00-13:10 | Cristina Silva Dias
<i>The k-degree models for symmetric stochastic matrices.</i> | abstract # 1111-62-695 |
| 13:15-13:25 | Max Souza
<i>Vector-borne disease dynamics with host circulation.</i> | abstract # 1111-92-768 |
| 13:30-13:40 | Helena Sofia Rodrigues
<i>Could commercial information be spread like a virus? Epidemiological model in a viral marketing context.</i> | abstract # 1111-34-78 |
| 13:45-13:55 | Elvio Accinelli
<i>The equilibrium set of infinite dimensional Walrasian economies and the natural projection.</i> | abstract # 1111-46-195 |
| 14:00-14:10 | Eka Oche Ogbaji
<i>Empirical verification of stock price volatility using heston model.</i> | abstract # 1111-65-147 |
| 14:15-14:25 | J. Beleza Sousa
<i>Machine learning Gaussian short rate.</i> | abstract # 1111-60-566 |
| 14:30-14:40 | Carla Lopes Santos
<i>OBS estimation and condensation.</i> | abstract # 1111-62-431 |

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Contributed Paper Session Math Education, History, Music, and Art

Saturday June 13, 2015 – Room M120

- | | | |
|-------------|---|--|
| 9:30-9:40 | Dirk R. H. Schlingmann
<i>Mathematics and music.</i> | abstract # 1111-00-22 |
| 9:45-9:55 | Maria-da-Graça Marques
<i>Elementary functions can become art.</i> | abstract # 1111-97-766 |
| 10:00-10:10 | Luke Wolcott
<i>A classification of math-art work.</i> | abstract # 1111-00-781 |
| 10:20-11:00 | Coffee/Tea Break | |

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- Inam, Muhammad – CPS Semigroups, abstract 1111-20-211, **3**
- Jana, Ranjan Kumar – CPS Analysis and Equations, abstract 1111-44-441, **1**
- Laurent-Gengoux, Camille – CPS Algebra, abstract 1111-20-720, **4**
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- Nehaniv, Chrystopher L. – CPS Algebra, abstract 1111-20-641, **4**
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- Sangkhanan, Kritsada – CPS Semigroups, abstract 1111-20-670, **3**
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Sati, Hisham – CPS Geometry and Topology, abstract 1111-55-797, **2**
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