



# 2015

10 - 13 June, Porto - Portugal  
INTERNATIONAL MEETING

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



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## Special Session 4 Algebraic Theory of Semigroups and Applications

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### Wednesday June 10, 2015 – Room M007

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

### Thursday June 11, 2015 – Room M007

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

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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-1y<sub>y</sub> are located in the Physics Department, basement floor.

**Friday June 12, 2015 – Room M007**

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

**Saturday June 13, 2015 – Room M007**

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