

# MASCOS Workshop on Algebraic Dynamics

UNSW, February 14 - February 18, 2005

Monday, Feb 14:

|                     |                                                                                     |                |
|---------------------|-------------------------------------------------------------------------------------|----------------|
| 9.15- 9.30          | Opening Remarks                                                                     |                |
| 9.30-10.15          | <a href="#">Introduction to commutative algebraic dynamics I</a>                    | K. Schmidt     |
| Morning Tea Break   |                                                                                     |                |
| 11.00-11.45         | <a href="#">Introduction to commutative algebraic dynamics II</a>                   | K. Schmidt     |
| Lunch               |                                                                                     |                |
| 14.00-15.00         | <a href="#">Entropy in algebraic dynamics</a>                                       | D. Lind        |
| Afternoon Tea Break |                                                                                     |                |
| 15.30-16.00         | <a href="#">Structure of totally disconnected groups via compact open subgroups</a> | U. Baumgartner |
| 16.00-16.30         | <a href="#">Directed graphs for higher dimensional dynamical systems</a>            | D. Pask        |
| 17.00-18.00         | Welcome Drinks                                                                      |                |

Tuesday, Feb 15:

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|---------------------|---------------------------------------------------------------------------|---------------|
| 9.30-10.30          | <a href="#">Aperiodic order and Dynamical Systems I</a>                   | R.V. Moody    |
| Morning Tea Break   |                                                                           |               |
| 11.00-12.00         | <a href="#">Aperiodic order and Dynamical Systems II</a>                  | D. Lenz       |
| Lunch               |                                                                           |               |
| 14.00-14.30         | <a href="#">Pisot substitutions and (limit-) quasiperiodic model sets</a> | B. Sing       |
| 14.30-15.00         | <a href="#">The entropy of the visible points</a>                         | P. Pleasants  |
| Afternoon Tea Break |                                                                           |               |
| 15.30-16.00         | <a href="#">Rational trigonometry for finite fields</a>                   | N. Wildberger |

Wednesday, Feb 16:

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|-------------------|--------------------------------------------------|--------------|
| 9.30-10.30        | <a href="#">Dynamics of piecewise isometries</a> | A. Goetz     |
| Morning Tea Break |                                                  |              |
| 11.00-12.00       | <a href="#">The 3x+1 problem</a>                 | G. Wirsching |
| Lunch             |                                                  |              |
| Free Afternoon    |                                                  |              |

Thursday, Feb 17:

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|---------------------|-------------------------------------------------------------------------------------------------|--------------|
| 9.30-10.30          | <a href="#">Asymptotic spectral distributions</a>                                               | F. Götze     |
| Morning Tea Break   |                                                                                                 |              |
| 11.00-12.00         | <a href="#">Eigenvalue distributions of random matrices</a>                                     | P. Forrester |
| Lunch               |                                                                                                 |              |
| 14.00-15.00         | <a href="#">Costs of equivalence relations and group actions</a>                                | T. Dooley    |
| Afternoon Tea Break |                                                                                                 |              |
| 15.30-16.00         | <a href="#">Folding Transformations of the Painlevé Equations</a>                               | N. Witte     |
| 16.00-16.30         | <a href="#">A geometric approach to q-Painlevé equations and their hypergeometric solutions</a> | K. Kajiwara  |
| 20.00               | Conference Dinner                                                                               |              |

Friday, Feb 18:

|                     |                                                                                           |                |
|---------------------|-------------------------------------------------------------------------------------------|----------------|
| 9.30-10.30          | <a href="#">Dynamical systems generated by rational maps over finite fields and rings</a> | I. Shparlinski |
| Morning Tea Break   |                                                                                           |                |
| 11.00-12.00         | <a href="#">Maps over finite fields: integrability and reversibility</a>                  | F. Vivaldi     |
| Lunch               |                                                                                           |                |
| 14.00-14.30         | <a href="#">An algebraic geometric approach to integrable maps of the plane</a>           | D. Jogia       |
| 14.30-15.00         | <a href="#">Macroscopic dynamics, almost-invariance, and almost-cyclicity</a>             | G. Froyland    |
| Afternoon Tea Break |                                                                                           |                |