Warwick Mathematics Institute

Winter School in Network Theory

and Applications

5-8 January 2011 Organisers: Colm Connaughton (Warwick), Stefan Grosskinsky (Warwick) and Eduardo Lopez (Oxford) All talks take place in MS.02

Programme

Wednesday 5th Jan 2011

| Weariesday Still | |
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| 09.30 - 11.00 | Registration & coffee |
| 11.00 – 11.30 | Coffee Break – Maths Common Room |
| 11.30 - 13.00 | T. House (Warwick) Introduction to network statistics I |
| 13.00 - 14.00 | Lunch – Maths Common Room |
| 14.00 - 15.30 | G. Bianconi (Boston) Evolution of networks and biological evolution I |
| 15.30 - 16.30 | Tea Break – Maths Common Room |
| 16.30 - 17.15 | M. Fricker (Oxford) Biologically-inspired rules for adaptive network design |
| 17.15 - 18.00 | D. Croydon (Warwick) Scaling limit of the Erdos-Renyi random graph and associated |
| | random walk |
| 18.00 | Drinks & Snacks – Maths Common Room |
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Thursday 6th Jan 2011

| 09.30 - 11.00 | T. House (Warwick) Introduction to network statistics II |
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| 11.00 - 11.30 | Coffee Break – Maths Common Room |
| 11.30 - 13.00 | G. Bianconi (Boston) Evolution of networks and biological evolution II |
| 13.00 - 14.00 | Lunch– Maths Common Room |
| 14.00 - 14.45 | R. Lambiotte (Imperial) Finding communities when lost in space |
| 14.45 - 15.30 | M. Gastner (Imperial) <i>Spatial networks: should we revive quantitative geography?</i> |
| 15.30 - 16.30 | Tea Break – Maths Common Room |
| 16.30 | Tutorial |
| 19.00 | Poster Session with Dinner – Maths Common Room |
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Friday 7th Jan 2011

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| 09.30 - 11.00 | M. Timme (Max Planck) Spatio-Temporal Dynamics of Complex (Neural) Networks I |
| 11.00 - 11.30 | Coffee Break – Maths Common Room |
| 11.30 - 13.00 | E. López (Oxford) Computational tools for network research: from real to random and from |
| | static to dynamic I |
| 13.00 - 14.00 | Lunch – Maths Common Room |
| 14.00 - 14.45 | A. Coja-Oghlan (Warwick) Spectral methods and regularity |
| 14.45 - 15.30 | E. Leicht (Oxford) Community structure in networks: practice and significance |
| 15.30 - 16.30 | Tea Break– Maths Common Room |
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Saturday 8th Jan 2011

| 09.30 - 11.00 | M Timme (Max Planke) Spatio-Temporal Dynamics of Complex (Neural) Networks II |
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| 11.00 – 11.30 | Coffee Break – Maths Common Room |
| 11.30 – 13.00 | E Lopez (Oxford) Computational tools for network research: from real to random and from |
| | static to dynamic II |
| 13.00 – 14.00 | Lunch – Maths Common Room |
| 14.00 – 15.30 | Tutorial |
| 15.30 | Departure |

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