

## Internet MRA Tutorials

### Tuesday September 9, 2008

- 8:00–8:45 *Check-In/Light Breakfast (Hosted by IPAM)*
- 8:45–9:00 *Welcome and Opening Remarks*
- 9:00–10:15 **Christina Fragouli** (École Polytechnique Fédérale de Lausanne (EPFL))  
*Network Coding Theory and Applications*
- 10:15–10:30 *Break*
- 10:30–11:45 **Christina Fragouli** (École Polytechnique Fédérale de Lausanne (EPFL))  
*Network Coding Theory and Applications*
- 11:45–12:15 *Core Orientation*
- 12:15–2:00 *Lunch (on your own)*
- 2:00–3:15 **Suhas Diggavi** (École Polytechnique Fédérale de Lausanne (EPFL))  
*Wireless Network Information Flow*
- 3:15–3:45 *Break*
- 3:45–5:00 **Suhas Diggavi** (École Polytechnique Fédérale de Lausanne (EPFL))  
*Wireless Network Information Flow*

### Wednesday September 10, 2008

- 8:00–9:00 *Continental Breakfast*
- 9:00–10:15 **Mauro Maggioni** (Duke University)  
*Random Walks on Graphs: Large-time Behavior and Applications to Analysis of Large Data Sets*
- 10:15–10:45 *Break*
- 10:45–12:00 **Mauro Maggioni** (Duke University)  
*Random Walks on Graphs: Large-time Behavior and Applications to Analysis of Large Data Sets*
- 12:00–2:00 *Lunch (on your own)*
- 2:00–3:15 **Timothy Griffin** (University of Cambridge)  
*An Algebraic Approach to Internet Routing: Semigroups and Semirings*
- 3:15–3:45 *Break*
- 3:45–5:00 **Timothy Griffin** (University of Cambridge)  
*An Algebraic Approach to Internet Routing: Solving Path Problems in Graphs*



## Thursday September 11, 2008

- 8:00–9:00 *Continental Breakfast*
- 9:00–10:15 **Timothy Griffin** (University of Cambridge)  
*An Algebraic Approach to Internet Routing: Constructing Routing Algebras for Internet Routing*
- 10:15–10:45 *Break*
- 10:45–12:00 **Timothy Griffin** (University of Cambridge)  
*An Algebraic Approach to Internet Routing: Metarouting*
- 12:00–2:00 *Lunch (on your own)*
- 2:00–3:15 **Mauro Maggioni** (Duke University)  
*Random Walks on Graphs: Multiscale Aspects*
- 3:15–3:45 *Break*
- 3:45–5:00 **Mauro Maggioni** (Duke University)  
*Random Walks on Graphs: Multiscale Aspects*

## Friday September 12, 2008

- 8:00–9:00 *Continental Breakfast*
- 9:00–10:15 **John Wroclawski** (University of Southern California (USC))  
*Network Architecture*
- 10:15–10:45 *Break*
- 10:45–12:00 **John Doyle** (California Institute of Technology)  
*Theoretical Foundations*
- 12:00–2:00 *Lunch (on your own)*
- 2:00–3:15 *Final Panel/Group Discussion*
- 3:15–3:45 *Break*

