

*NIPS2011 Satellite Meeting on*  
***Causal Graphs: Linking Brain Structure to Function***  
*Granada, December 11, 2011*

9:00 Registration and Breakfast

**Morning Session I** – Chair Miguel Angel Muñoz

9:30 Welcome and Local Information

9:40 **Stefano Panzeri** – *Causality analysis in information flow from cortical time series*

10:20 **Bert Kappen** - *The Variational Garrote*

10:40 Bjorn Roelstraete - *Does Partial Granger Causality really eliminate the influence of exogenous inputs and latent variables?*

11:00 Stefan Haufe - *New methods for EEG source connectivity analysis*

11:20 Coffee break

**Morning Session II** – Chair Jesus Cortes

11:40 Daniele Marinazzo - *Causal information approach to coping with a large number of variables*

12:00 Jan Kujala - *Characterization of epileptogenic networks by means of Granger Causality*

12:20 Daniel Chicharro - *Causal effects between brain regions: existence and quantification*

12:40 Shahar Jamshe - *Band-limited Granger causality analysis of human electrocorticography*

13:00 Karim Jerbi - *Measuring long-range neuronal coupling with magnetoencephalography and intracranial EEG: From basic neuroscience to clinical applications*

13:20 Lunch – Coffee – Poster presentation

**Afternoon Session I** – Chair Daniele Marinazzo

14:50 **Markus Kaiser** – *The human connectome*

15:30 Michael Wibral - *Combining interaction-latency reconstruction based on transfer entropy with graph-theoretical approaches to prune neural connectivity graphs*

15:50 Jaime Gomez - *Explaining the causal link between place cells and grid cells with category theory*

16:10 Derin Babacan - *Variational Bayesian Causal Connectivity Analysis for fMRI*

16:30 Coffee break

**Afternoon Session II** – Chair Sebino Stramaglia

16:50 Pieter van Mierlo - *Epileptogenic focus localization through functional connectivity analysis of the intracranial EEG*

17:10 Christian Moewes - *Brain connectivity associated with different damages of the visual system*

17:30 **Anil Seth** – *Causality in neuroscience*

18:10 **Discussion and concluding remarks** – Chair Andrea Greve