

## List of poster presentations<sup>2</sup>

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All posters will be on display during the whole workshop week.

The poster sessions take place on Tuesday (June 17) and Thursday (June 19) 7:30 - 9 pm.

The number in front of the name corresponds to the number on the poster wall!

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|----|-------------------------------|--|
| 1  | Ansmann, Gerrit               | <i>Generating mechanisms of extreme events in oscillator networks</i>  |
| 2  | Bajic, Djordje                | <i>Instability of genetic networks to internal perturbations</i>   |
| 3  | Bhattacharya, Joydeep         | <i>Signature of genre specific musical creativity on cortical network patterns: A pilot study</i>                      |
| 4  | Bialonski, Stephan            | <i>Data-driven prediction of extreme events in high-dimensional excitable systems</i>                                  |
| 5  | Bianco-Martinez, Ezequiel     | <i>Information based approach for data analysis and network inference</i>  |
| 6  | Casadiego Bastidas, Jose Luis | <i>Network dynamics as an inverse problem: Reconstruction from time series</i>   |
| 7  | Dana, Syamal                  | <i>Amplitude death and lag synchronization in coupled oscillators: A common mechanism</i>                              |
| 8  | Dana, Syamal                  | <i>Amplitude death and oscillation death in coupled dynamical system: Mechanisms of transition</i>                     |
| 9  | Di Bernardi Luft, Caroline    | <i>The effect of graded and categorical feedback on learning related global synchronization</i>                        |
| 10 | Dickten, Henning              | <i>Measuring delay directed interactions with symbolic transfer entropy</i>  |
| 11 | Dods, Joe                     | <i>A dynamic network analysis of space weather activity as observed in multiple ground based magnetometer stations</i> |
| 12 | Elsegai, Heba                 | <i>Network inference in the presence of latent confounders</i>   |
| 13 | Gascoyne, Daniel              | <i>Non-linear dynamics of learning and its application to colour identification</i>                                    |
| 14 | Geier, Christian              | <i>Is the epileptic focus the most important region in epileptic brain networks?</i>                                   |
| 15 | Hallerberg, Sarah             | <i>Predicting and triggering long jumps and sticks in molecular diffusion</i>  |
| 16 | Hens, Chittaranjan            | <i>Chimera state in globally coupled chaotic oscillators</i>   |
| 17 | Hens, Chittaranjan            | <i>Extreme Multistability in network of oscillators</i>  |

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<sup>2</sup>Abstracts available at <http://www.pks.mpg.de/~cidnet14/>

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- 18 Hernandez Lahme, Damian Gabriel *High-order interactions between words in written language*
- 19 Hlinka, Jaroslav *Reliability of inference of directed climate networks using conditional mutual information*
- 20 Jajcay, Nikola *Granger causality estimate of information flow in temperature fields is consistent with wind direction*
- 21 Ji, Peng *Cluster explosive synchronization in complex networks*
- 22 Kishore, Vimal *Extreme events and network failures*
- 23 Korbel, Jan *Rnyi transfer entropy and its application for intraday financial data*
- 24 Liang, X. San *Information flow/transfer: A rigorous formalism with respect to dynamical systems*
- 25 Lünsmann, Benedict *From effective to physical networks from time series*
- 26 Marfy, Janos *tba*
- 27 Martin, Elliot *Creating and interpreting climate networks: Insights and caveats*
- 28 Marín, Arlex *Genuine cross-correlations: Which surrogate based measure reproduces analytical results best?*
- 29 Nitzan, Mor *Revealing cross talk between distant RNAs in regulatory networks*
- 30 Olguín, Paola *Stationary pattern and dynamical aspects of the functional network extracted from sleep EEGs of healthy subjects*
- 31 Pal, Pinaki *Gluing bifurcation in Rayleigh-Benard convection*
- 32 Palmigiano, Agostina *Routing information in networks at the edge of synchrony*
- 33 Pascual-García, Alberto *Inference of ecological networks from high-throughput experiments*
- 34 Pereda, Ernesto *Maximal information coefficient reveals network correlates to the perception of binaural beats*
- 35 Pidde, Aleksandra *Time evolution of functional connectivity based on EEG in movement imagery paradigm.*
- 36 Porz, Stephan *Pros and cons of reducing the influence of common sources on phase-based estimates of interaction-strengths*
- 37 Priesemann, Viola *Organization principles of neural activity in vivo - beyond self-organized criticality*

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- 38 Ramanathan, Ravishankar *Deciphering dynamics of fast folding proteins using simple models & single molecule experimental photon trajectories*
- 39 Rubido, Nicolas *Exact detection of direct links in networks of interacting dynamical systems*
- 40 Rubido, Nicolas *Resiliently evolving supply-demand networks*
- 41 Ríos Herrera, Wady Alexander *The influence of EEG references on the analysis of spatio-temporal interrelation pattern*
- 42 Röder, Heidelinde *Reconstructing correlation and causality between compounds of dissolved organic matter*
- 43 Rüdiger, Sten *Degree correlations in complex networks: effects on percolation and information transfer in neural populations*
- 44 Soriano Fradera, Jordi *Multi-neuron calcium imaging: Exploring neuronal dynamics in cortical cultures*
- 45 Srivastava, Shambhavi *Functional representation of DNA*
- 46 Tapia, Luis *Resting state of the brain and networks metrics*
- 47 Teller Amado, Sara *Dynamics in clustered neuronal networks*
- 48 Valencia, Miguel *Subthalamic activity during motor state levodopa-induced transitions in Parkinson's disease*
- 49 Vasudevan, Kris *Insight into earthquake sequencing: A graph theoretic approach to modified Markov chain model*
- 50 Vasudevan, Kris *Synchronization studies: Kuramoto model on directed graphs*
- 51 Wahl, Benjamin *Definition of a nonlinear Granger causality index within the framework of stationary Fokker-Planck equations*
- 52 Wan, Xiaogeng *The causal inference of cortical neural networks during music improvisations*
- 53 Wejer, Dorota *Entropic measures of fluctuations of heart period intervals and systolic blood pressure for recordings obtained from the head-up tilt table test*
- 54 Wilting, Jens *Time-resolved inference of interaction properties of coupled dynamical systems*

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