



Coupling & Causality in Complex Systems



The interdisciplinary conference **Coupling and Causality in Complex Systems (C3S)** is hosted by the Competence Area 3:

Quantitative Modeling of Complex Systems of the University of Cologne, Germany. Complex systems

such as the human brain, Earth's climate and economy are characterized by a multitude of coupled processes on different spatial and temporal scales. In order to better understand the dynamics of the system at hand each scientific area has developed specific tools to identify, model and quantify these processes. The international conference **Coupling and Causality in Complex Systems (C3S)** will present a collection of these approaches with the aim to foster interdisciplinary exchange of ideas and to provide scientists with new analysis strategies for their field.

25-27.09.2017

**Biocenter | Hörsaal 0.024 & Foyer
Zülpicher Straße 47b
50674 Köln**

Speakers:

Jörg Breitung | Macroeconomics, Cologne

David Gross | Theoretical Physics, Cologne

Philip Holmes | Neuroscience, Princeton

Ankit Khambhati | Bioengineering, Pennsylvania

Laura Marzetti | Neuroscience, Chieti

Arkady Pikovsky | Statistical Physics, Potsdam

Michael Rosenblum | Statistical Physics, Potsdam

Jakob Runge | Climate Change, London

Abstract deadline: June 01, 2017

Early-bird registration until July 10, 2017

Scientific Organizing Committee

Silvia Daun | Institute of Zoology, University of Cologne, Germany;
Department of Cognitive Neuroscience, Research Center Jülich, Germany
Esther Florin | Institute of Clinical Neuroscience and Psychology, Düsseldorf, Germany
Joachim Gross | Center for Cognitive Neuroimaging, Glasgow, UK
Michael von Papen | Institute of Geophysics & Meteorology, Cologne, Germany

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