

# Program

## Sunday, July 1, 2018

17:00 – 21:00    Registration

from 18:30        *BUFFET SUPPER / Informal get together*

## Monday, July 2, 2018

08:00              *BREAKFAST*

09:00 – 09:15    Scientific organizers    **Opening and welcome**

09:15 – 10:00    Rajarshi Roy              **Photons, Networks and Synchrony in  
Complex Delayed Systems**

10:00 – 10:45    Yuliya Kyrychko        **Exploring the wonderland of systems  
with distributed delays**

10:45 – 11:15    *COFFEE BREAK*

11:15 – 12:00    Luca Giuggioli            **Analytic investigations of probability  
distributions for linear delayed Langevin  
equations with additive Gaussian noise**

12:00 – 12:45    Andre Longtin            **Distributed delays in stochastic neural  
systems**

12:45              *LUNCH*

# Program

**Monday, July 2, 2018**

14:15 – 15:00	Bernd Krauskopf	<b>State-dependent delayed feedback in the El Niño Southern Oscillation system</b>
15:00 – 15:30	Tony Humphries	<b>Bifurcations of Scalar DDE Cell-Cycle Models</b>
15:30 – 16:00	David Müller	<b>Laminar Chaos</b>
16:00 – 16:30	<i>COFFEE BREAK</i>	
16:30 – 18:00	<b>Poster Flashes</b>	
18:00 – 19:00	<b>Poster Session</b>	
19:00	DINNER	

# Program

**Tuesday, July 3, 2018**

07:30	BREAKFAST	
08:45 – 09:00	Stefan Jorda	<b>About the Wilhelm and Else Heraeus Foundation</b>
09:00 – 09:45	Rifat Sipahi	<b>Effects of Delays on the Dynamics of Multi-Agent Systems</b>
09:45 – 10:30	Wim Michiels	<b>Design of structured controllers for network of delay-coupled systems</b>
10:30 – 10:45	<b>Conference Photo</b>	
10:45 – 11:15	COFFEE BREAK	
11:15 – 12:00	Sue Ann Campbell	<b>Symmetry, Hopf Bifurcation and the Emergence of Cluster Solutions in Time Delayed Neural Networks</b>
12:00 – 12:45	Eckehard Schöll	<b>Partial synchronization patterns - interplay of time delay, dynamics, and network topology</b>
12:45	LUNCH	
14:15 – 18:30	<b>Excursion:</b>	
		<ul style="list-style-type: none"><li>• <b>Boat trip on the Rhine to the City of Linz</b></li><li>• <b>Stay in Linz</b></li><li>• <b>Boat trip back to Bad Honnef</b></li></ul>
19:00	DINNER	

# Program

**Wednesday, July 4, 2018**

08:00	BREAKFAST	
09:00 – 09:45	Serhiy Yanchuk	<b>Dynamical patterns in networks of excitable systems with coupling delays</b>
09:45 – 10:30	Vladimir Klinishov	<b>Destabilization of regular spiking in networks with pulse delayed coupling</b>
10:30 – 11:00	COFFEE BREAK	
11:00 – 11:45	John Milton	<b>Hybrid systems with delay in human balance control</b>
11:45 – 12:30	Michael Mackey	<b>Mathematical models of gene regulation: Biology drives new mathematics</b>
12:30	LUNCH	
14:00 – 14:45	Laurent Larger	<b>Delay dynamics emulating network of coupled oscillators: from chimera states to brain-inspired processing</b>
14:45 – 15:30	Ingo Fischer	<b>Employing Delay-Systems for Fast Neuro-Inspired Information Processing</b>
15:30 – 16:00	Thomas Jüngling	<b>Consistency properties of chaotic systems driven by time-delayed feedback</b>
16:00 – 16:30	COFFEE BREAK	
16:30 – 17:15	Andrei Vladimirov	<b>Time-delay systems in multimode laser dynamics</b>
17:15 – 18:00	Jan Sieber	<b>Spectrum of periodic orbits with long delay and slightly longer period</b>
18:00 – 18:45	Kathy Lüdge	<b>Routes to complexity in the light output of mode-locked lasers</b>
19:00	HERAEUS DINNER at the Physikzentrum (cold & warm buffet, free beverages)	

# Program

Thursday, July 5, 2018

08:00	BREAKFAST	
09:00 – 09:45	Svetlana Gurevich	<b>Delayed feedback control of self-mobile cavity solitons in a wide-aperture laser with a saturable absorber</b>
09:45 – 10:30	Thomas Erneux	<b>Fronts, pulses, and wave trains of delayed PDEs</b>
10:30 – 11:00	COFFEE BREAK	
11:00 – 11:45	Fatihcan Atay	<b>Conserved Quantities in Network Dynamics under Time Delays</b>
11:45 – 12:30	Spase Petkoski	<b>Heterogeneity of time delays determines synchronization of coupled oscillators</b>
12:30 – 12:45	Scientific organizers	<b>Closing remarks and Poster Awards</b>
12:45	LUNCH	

**End of the seminar and FAREWELL COFFEE / Departure**

Please note that there will be **no** dinner at the Physikzentrum on Thursday evening for participants leaving the next morning.