

Program

Sunday, 15 December 2019

17:00 – 21:00 Registration

From 18:30 *BUFFET SUPPER and informal get-together*

Monday, 16 December 2019

08:00 *BREAKFAST*

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

09:15 – 10:00 Sergey Gonchenko **Three forms of dynamical chaos**

10:00 – 10:45 Alexander Hramov **Hyperchaotic behavior in driven interacting Rydberg atoms**

10:45 – 11:00 *COFFEE BREAK*

11:00 – 11:45 Boris Fine **Statistical ensembles realized in many-body quantum systems with and without monitoring**

11:45 – 12:30 Alexey Ustinov **Microwave driven quantum metamaterials**

12:40 **Conference Photo** (in the front of the lecture hall)

12:45 *LUNCH*

Program

Monday, 16 December 2019

14:30 – 16:00	Colloquium Sergey Denisov	Two approaches to dissipative Quantum Chaos
16:00 – 16:30	<i>COFFEE BREAK</i>	
16:30 – 17:00	Igor Yusipov	Quantifying dissipative quantum chaos by Lyapunov exponents and quantum jumps statistics
17:00 – 17:45	Juzar Thingna	Symmetries in Open Quantum Systems
17:45 – 18:15	Alexander Schnell	Floquet Engineering in presence of dissipation
18:30	<i>DINNER</i>	

Program

Tuesday, 17 December 2019

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Dario Poletti	Asymptotic Floquet states of interacting open quantum systems and period-doubling in period-1 steady states
09:45 – 10:30	Arkady Pikovsky	Phase locking vs frequency entrainment in synchronization under common noise
10:30 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:45	Peter Hänggi	Quantum Dissipation: A Primer
11:45 – 12:30	Antonio Politi	Chaotic dynamics of the discrete nonlinear Schroedinger equation
12:40	<i>LUNCH</i>	
14:30 – 15:15	Emil Yuzbashyan	Integrable time-dependent Hamiltonians
15:15 – 15:45	Samuel Jacob	Heat and Work in Quantum Scattering Theory
15:45 – 16:15	<i>COFFEE BREAK</i>	
16:15 – 17:00	Igor Burmistrov	Multifractality in disordered interacting electron systems
18:00	<i>DINNER</i>	
19:00 – 21:00	Poster Session I	

Program

Wednesday, 18 December 2019

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Daniel Leykam	Making light of dissipative quantum systems
09:45 – 10:30	Achilleas Lazarides	Quantum order at infinite temperature, time crystals, and dissipation
10:30 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:45	Sarika Jalan	Explosive Synchronization in Multilayer Networks
11:45 – 12:15	Tobias Becker	Lindbladian approximation beyond the ultra weak coupling assumption
12:30	<i>LUNCH</i>	
14:00 – 19:00	Excursion (a tour to the Christmas market in Bonn)	
19:00	<i>HERAEUS DINNER at the Physikzentrum (cold & warm buffet, with complimentary drinks)</i>	

Program

Thursday, 19 December 2019

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Eva-Maria Graefe	A PT-symmetric kicked top
09:45 – 10:30	Karol Życzkowski	Quantum chaos for open systems: Universal spectra of random Lindblad operators
10:30 – 10:45	<i>COFFEE BREAK</i>	
10:45 – 11:30	Eli Barkai	Introduction to the quantum first detection problem
11:30 – 12:00	Dariusz Chruściński	Information flow versus divisibility for classical and quantum dynamical maps
12:00 – 12:30	Aniket Patra	Driven-Dissipative Dynamics of Coupled Atomic Clocks
12:30	<i>LUNCH</i>	
14:00 – 14:45	Andre Eckardt	Driven-dissipative ordering and universal non-equilibrium dynamics in open quantum gases
14:45 – 15:30	Sølve Selstø	Absorbers as tools – and measuring devices
15:30 – 16:00	José Vieira	Quadratic models for heat reservoirs

Program

Thursday, 19 December 2019

16:00 – 16:30 *COFFEE BREAK*

16:30 – 17:15 Yuri Maistrenko **Multistability in dynamical networks:
from solitary oscillators to spatial chaos**

17:15 – 17:45 Ihor Vakulchyk **Quantum trajectories approach to
dissipative boundary conditions for
time-dependent atomic problems**

18:00 *DINNER*

19:00 – 21:00 **Poster session II**

Program

Friday, 20 December 2019

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Dmitry Turaev	Adiabatic control of quantum mechanical systems
09:45 – 10:15	Jessica Eastman	Controlling chaos in the quantum regime using adaptive measurements
10:15 – 10:45	<i>COFFEE BREAK</i>	
10:45 – 11:30	David Luitz	Spectral features of generic open quantum many-body systems
11:30 – 11:45	Sergej Flach Jürgen Kurths Mikhail Ivanchenko	Closing remarks and poster awards
12:00 – 13:30	<i>LUNCH</i>	

End of the seminar and *FAREWELL COFFEE* / Departure