



Fundamentals and methods of design and control of complex systems

WS 2019/20

Mondays 16:15 - 17:45
EW 203, TU Berlin

Mathematical Foundations:

21.10.19	Bernold Fiedler (A4)	Bifurcations
28.10.19	Isabelle Schneider (A4)	Delay differential equations
04.11.19	Wilhelm Stannat (A10)	Optimal control of stochastic processes
11.11.19	Volker Mehrmann (A2)	Port-Hamiltonian differential algebraic operators in electrical and flow networks

Patterns:

18.11.19	Markus Bär (B5)	Pattern formation in biological systems
25.11.19	Alexander Mielke (A5)	Pattern formation in coupled parabolic systems on extended domains
02.12.19	Matthias Wolfrum (A3)	Patterns in discrete media

Complex fluids:

13.01.20	Sabine Klapp (B2)	Control of driven colloidal systems
20.01.20	Etienne Emmrich (A8)	Evolution equations, existence via discretization, and the Navier-Stokes problem
27.01.20	Holger Stark (B4)	Hydrodynamic flows in complex fluids