

Physics of Socio-Economic Systems Division Fachverband Physik sozio-ökonomischer Systeme (SOE)

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Overview of Invited Talks and Sessions

(Lecture rooms: MA 001, H 0104, A 151, BH-N 243, BH-N 333, and BH-N 128; Posters: E (close to MA 001))

Plenary Talk related to SOE

PV XXV Thu 14:00–14:45 H 0104 **Collective Motion, Collective Decision-making, and Collective Action: From Microbes to Societies** — ●SIMON LEVIN

Invited Talks

SOE 7.1 Mon 16:00–16:45 MA 001 **Computational Social Science: Exciting Progress and Future Challenges** — ●DUNCAN WATTS
SOE 9.1 Tue 9:30–10:15 MA 001 **The Universality of Cities as Complex Network Systems** — ●LUIS BETTENCOURT

Prize Talk of the Young Scientist Award for Socio- and Econophysics (YSA)

SOE 7.2 Mon 17:00–17:45 MA 001 **For cooperation please add: Carrots, sticks, both, or neither?** — ●MATJAZ PERC

Topical Talks

SOE 10.1 Tue 10:15–10:45 MA 001 **Micro dynamics of social interactions** — ●SUNE LEHMANN
SOE 10.6 Tue 11:45–12:15 MA 001 **Containing epidemics using limited resources and information** — ●OLIVIA WOOLLEY-MEZA
SOE 15.1 Wed 16:45–17:15 MA 001 **The Industrial Society's natural Sustainability** — ●HANS G. DANIELMEYER, THOMAS MARTINETZ
SOE 23.1 Thu 17:00–17:30 MA 001 **Critical Transitions in Socio-econo-ecological Systems—A Global Adaptive Model of the Regional Transitions to Agriculture 8000 BC to AD 500** — ●CARSTEN LEMMEN, KAI W. WIRTZ

Invited Tutorial Talks

SOE 1.1 Sun 16:00–16:50 H 0104 **Economics in a nutshell, for physicists** — ●SYLVIE GEISENDORF
SOE 1.2 Sun 16:50–17:40 H 0104 **Connecting microscopic behavioral economics to macroscopic financial market models** — ●SEBASTIAN M. KRAUSE
SOE 1.3 Sun 17:40–18:30 H 0104 **You are a young and aspiring physicist. Is working at the interface with economics a good idea?** — ●TOBIAS GALLA

Invited talks of the joint symposium SYPS

See SYPS for the full program of the symposium.

SYPS 1.1 Wed 9:30–10:00 H 0105 **Anticipating and avoiding tipping points** — ●TIMOTHY M. LENTON
SYPS 1.2 Wed 10:00–10:30 H 0105 **Climate investment under uncertainty: the two degree target and the desire for dynamic consistency** — ●HERMANN HELD, DELF NEUBERSCH

SYPS 1.3	Wed	10:30–11:00	H 0105	What are the resources required to fulfil human needs? — ●JULIA STEINBERGER
SYPS 1.4	Wed	11:15–11:45	H 0105	Design of Sustainable Supply Chains for Sustainable Cities — ●ANNA NAGURNEY
SYPS 1.5	Wed	11:45–12:15	H 0105	Ecological econophysics for degrowth — ●SALVADOR PUEYO

Sessions

SOE 1.1–1.3	Sun	16:00–18:30	H 0104	Tutorial: From spin models to macroeconomics (SOE, DY, jDPG)
SOE 2.1–2.1	Mon	9:30–10:00	MA 001	Future Visions of Socio- and Econophysics
SOE 3.1–3.3	Mon	10:00–10:45	MA 001	Evolutionary Dynamics of Social Systems
SOE 4.1–4.6	Mon	10:45–12:15	MA 001	Financial Markets and Risk Management
SOE 5.1–5.4	Mon	12:15–13:15	MA 001	Networks: From Topology to Dynamics I (joint session SOE / DY / BP)
SOE 6.1–6.3	Mon	15:00–15:45	MA 001	Evolutionary Game Theory I (joint session SOE / BP / DY)
SOE 7.1–7.2	Mon	16:00–17:45	MA 001	Prize Session: Young Scientist Award for Socio- and Econophysics (YSA)
SOE 8.1–8.31	Mon	18:00–20:00	Poster E	Poster
SOE 9.1–9.1	Tue	9:30–10:15	MA 001	Urban Systems - Dynamics and Complexity of Cities (Invited Talk Luis Bettencourt)
SOE 10.1–10.10	Tue	10:15–13:15	MA 001	Focus Session: Complex Contagion Phenomena (joint session SOE / DY / BP)
SOE 11.1–11.9	Tue	14:00–16:15	MA 001	Evolutionary Game Theory II (joint session BP / SOE / DY)
SOE 12.1–12.5	Wed	9:30–12:15	H 0105	Physics of Sustainability and Human-Nature Interactions (Symposium SYPS)
SOE 13.1–13.6	Wed	15:00–16:30	MA 001	Opinion Formation, Segregation, and Language Dynamics
SOE 14.1–14.5	Wed	15:00–16:30	A 151	Fluctuating Electricity Supply: Modelling of Generation, Backup and Storage (joint session AKE / DY / SOE)
SOE 15.1–15.6	Wed	16:45–18:30	MA 001	Physics of Sustainability and Human-Nature Interactions I (joint with DY, jDPG, BP, AKE) - session accompanying the symposium SYPS
SOE 16	Wed	18:35–19:30	MA 001	Annual Member's Assembly
SOE 17.1–17.6	Thu	9:30–11:15	MA 001	Social Systems, Opinion and Group Dynamics
SOE 18.1–18.3	Thu	11:15–12:00	MA 001	Social Networks
SOE 19.1–19.5	Thu	12:00–13:15	MA 001	Networks: From Topology to Dynamics II (joint session SOE / DY / BP)
SOE 20.1–20.12	Thu	9:30–12:45	BH-N 243	Energy Systems (joint session DY/ AK Energy / SOE)
SOE 21.1–21.1	Thu	14:00–14:45	H 0104	Plenary Talk Simon Levin
SOE 22.1–22.7	Thu	15:00–17:00	MA 001	Economic Models
SOE 23.1–23.5	Thu	17:00–18:30	MA 001	Physics of Sustainability and Human-Nature Interactions II (joint with DY, jDPG, BP) - session accompanying the symposium SYPS
SOE 24.1–24.7	Thu	15:00–17:00	BH-N 243	Extreme Events (joint session DY / SOE)
SOE 25.1–25.12	Fri	9:30–12:45	BH-N 128	Networks: From Topology to Dynamics III (joint session DY / SOE / BP)

Annual General Meeting of the Physics of Socio-economic Systems Division

Wednesday 18:35–19:30 MA 001

- Report on activities. Announcement of conferences and workshops.
- Report by Benjamin Lux on www.uni-ulm.de/physics_meets_finance (5.-7. March 2015).
- Discussion of future symposia and focus session suggestions & Miscellaneous.