

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

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Overview of Invited Talks and Sessions

(Lecture halls MA 001, TC 006, and PTB; Poster D)

Invited Talks

SOE 2.1	Mon	9:30–10:00	MA 001	Collective emotions and polarization on social media — ●KRISTINA LERMAN
SOE 5.1	Mon	16:15–16:45	MA 001	Radical Complexity and Bounded Rationality — ●JEAN-PHILIPPE BOUCHAUD
SOE 11.1	Wed	9:30–10:00	MA 001	Urban scaling laws arise from within-city inequalities — ●MARC KEUSCHNIGG
SOE 20.1	Thu	15:00–15:30	MA 001	A closer look at the multiple scales of armed conflict — ●EDWARD LEE
SOE 22.1	Fri	9:30–10:00	MA 001	Resilience of power grids against extreme events — ●MEHRNAZ AN-VARI

Invited Talks of the joint Symposium SKM Dissertation Prize 2024 (SYSD)

See SYSD for the full program of the symposium.

SYSD 1.1	Mon	9:30–10:00	H 1012	Nonequilibrium dynamics in constrained quantum many-body systems — ●JOHANNES FELDMIEIER
SYSD 1.2	Mon	10:00–10:30	H 1012	Controlled Manipulation of Magnetic Skyrmions: Generation, Motion and Dynamics — ●LISA-MARIE KERN
SYSD 1.3	Mon	10:30–11:00	H 1012	Interactions within and between cytoskeletal filaments — ●CHARLOTTA LORENZ
SYSD 1.4	Mon	11:00–11:30	H 1012	Field theories in nonequilibrium statistical mechanics: from molecules to galaxies — ●MICHAEL TE VRUGT
SYSD 1.5	Mon	11:30–12:00	H 1012	Lightwave control of electrons in graphene — ●TOBIAS WEITZ

Invited Talks of the joint Symposium Diversity and Equality in Physics (SYDE)

See SYDE for the full program of the symposium.

SYDE 1.1	Tue	9:30–10:00	PTB HS HvHB	Workplace cultures in physics as a game changer for equal opportunities — ●MARTINA ERLEMANN
SYDE 1.2	Tue	10:00–10:30	PTB HS HvHB	Science on the Web: How networks bias academic communication online — ●AGNES HORVAT
SYDE 1.3	Tue	10:30–11:00	PTB HS HvHB	Citation inequity and gendered citation practices in contemporary physics — ●ERIN TEICH, JASON KIM, CHRISTOPHER LYNN, SAMANTHA SIMON, ANDREI KLISHIN, KAROL SZYMULA, PRAGYA SRIVASTAVA, LEE BASSETT, PERRY ZURN, JORDAN DWORKIN, DANI BASSETT
SYDE 1.4	Tue	11:15–11:45	PTB HS HvHB	The Diversity-Innovation Paradox in Science — ●BAS HOFSTRA
SYDE 1.5	Tue	11:45–12:15	PTB HS HvHB	Gender and retention patterns among U.S. faculty — ●AARON CLAUSET

Invited Talks of the joint Symposium Statistical Physics of Economic and Financial Systems (SYEF)

See SYEF for the full program of the symposium.

SYEF 1.1	Thu	9:30–10:00	H 0105	Economic Complexity Theory and the General Economic Theory: Applying Synergetics — ●WEI-BIN ZHANG
SYEF 1.2	Thu	10:00–10:30	H 0105	Opinion Formation in the World Trade Network — ●DIMA SHEPELYANSKY
SYEF 1.3	Thu	10:30–11:00	H 0105	Transfer Entropy in financial stock markets — ●LEONIDAS SANDOVAL
SYEF 1.4	Thu	11:15–11:45	H 0105	Statistical-Physics Theory of the Long Memory in Market-Order Flows and its Empirical Validation in the Tokyo Stock Exchange — ●KIYOSHI KANAZAWA
SYEF 1.5	Thu	11:45–12:15	H 0105	Ergodicity Economics and the Insurance Problem — ●BENJAMIN SKJOLD, OLE PETERS, COLM CONNAUGHTON

Invited Talks of the joint Symposium New Trends in Nonequilibrium Physics: Conservation Laws and Nonreciprocal Interactions (SYNP)

See SYNP for the full program of the symposium.

SYNP 1.1	Thu	15:00–15:30	H 0105	Universality classes of nonequilibrium phase transitions with conservation constraints — ●WALTER ZIMMERMANN
SYNP 1.2	Thu	15:30–16:00	H 0105	The many faces of living chiral crystals — ●NIKTA FAKHRI
SYNP 1.3	Thu	16:00–16:30	H 0105	Non-reciprocal pattern formation of conserved fields — ●FRIDTJOF BRAUNS, M CRISTINA MARCHETTI
SYNP 1.4	Thu	16:45–17:15	H 0105	Phase transitions and fluctuations of nonreciprocal systems — ●SARAH A.M. LOOS
SYNP 1.5	Thu	17:15–17:45	H 0105	Chiral matters — ●WILLIAM IRVINE

Sessions

SOE 1.1–1.3	Sun	16:00–18:15	H 1012	Tutorial: Dynamics of Economic and Financial Systems (joint session SOE/TUT)
SOE 2.1–2.8	Mon	9:30–12:00	MA 001	Focus Session: Machine Learning for Complex Socio-economic Systems
SOE 3.1–3.2	Mon	12:15–12:45	MA 001	Machine Learning
SOE 4.1–4.4	Mon	15:00–16:00	MA 001	Collective Dynamics
SOE 5.1–5.2	Mon	16:15–18:00	MA 001	Award Session: Young Scientist Award for Socio- and Econophysics (YSA)
SOE 6.1–6.3	Mon	15:00–16:30	PTB HS HvHB	Transformation Processes in Scientific Publishing – A Discussion (joint session AGI/SOE/AKjDPG)
SOE 7.1–7.17	Mon	18:00–20:30	Poster D	Poster
SOE 8.1–8.13	Tue	9:30–13:00	BH-N 243	Machine Learning in Dynamics and Statistical Physics II (joint session DY/SOE)
SOE 9.1–9.1	Tue	10:00–12:00	MAR 0.011	Physics Information Services (joint session AGI/SOE)
SOE 10.1–10.4	Tue	13:15–14:15	PTB HS HvHB	Sociophysics Approaches to Diversity and Equality (Accompanying Session to the Symposium Diversity and Equality in Physics)
SOE 11.1–11.1	Wed	9:30–10:00	MA 001	Urban Scaling
SOE 12.1–12.4	Wed	10:00–11:00	MA 001	Urban Systems and Traffic Flow
SOE 13.1–13.6	Wed	9:30–12:25	MAR 0.011	Hacky Hour I (joint session AGI/SOE/AKjDPG)
SOE 14.1–14.6	Wed	11:15–13:05	MA 001	Focus Session: Dynamics of Socio-ecological Systems
SOE 15.1–15.2	Wed	15:00–15:30	MA 001	Concept Transfer between Sciences
SOE 16.1–16.9	Wed	15:30–18:00	MA 001	Social Systems, Opinion and Group Dynamics
SOE 17.1–17.13	Wed	15:00–18:30	TC 006	Networks: From Topology to Dynamics (joint session SOE/DY)
SOE 18.1–18.5	Wed	15:00–18:00	MAR 0.011	Hacky Hour II (joint session AGI/SOE/AKjDPG)
SOE 19	Wed	18:30–20:00	TC 006	Members' Assembly
SOE 20.1–20.4	Thu	15:00–16:45	MA 001	Focus Session: Statistical Physics of Political Systems
SOE 21.1–21.4	Thu	17:00–18:00	MA 001	Computational Social Science

SOE 22.1–22.1	Fri	9:30–10:00	MA 001	Power Grids (joint session SOE/DY)
SOE 23.1–23.9	Fri	9:30–12:15	BH-N 128	Networks: From Topology to Dynamics (joint session DY/SOE)
SOE 24.1–24.3	Fri	10:00–10:45	MA 001	Financial Markets and Risk Management
SOE 25.1–25.3	Fri	11:00–11:45	MA 001	Economic Networks
SOE 26.1–26.2	Fri	11:45–12:15	MA 001	Mobility
SOE 27.1–27.2	Fri	12:15–12:45	MA 001	Sports Studies: Football/Soccer

Members' Assembly of the Physics of Socio-economic Systems Division

Wednesday 18:30–20:00 TC 006

- Bericht
- Zukunft und Perspektiven des Fachverbands SOE
- Verschiedenes