

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

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### Overview of Invited Talks and Sessions

(Lecture hall H45; Poster P4)

#### Invited Talks

SOE 1.1	Mon	15:00–15:30	H45	<b>Interplay between multiscaling and rough volatility</b> — •TIZIANA DI MATTEO
SOE 4.1	Tue	9:30–10:00	H45	<b>Urban scaling and conflicting goals</b> — •DIEGO RYBSKI
SOE 6.1	Tue	14:00–14:30	H45	<b>Analyzing Political Regime Stability Through the Diffusion Equation: Insights from V-Dem Data (1900–2021)</b> — •KAROLINE WIESNER
SOE 7.1	Wed	9:30–10:00	H45	<b>When networks can think: The meaning of self-regulation in the presence of humans</b> — •ALINA HERDERICH
SOE 10.1	Thu	15:00–15:30	H45	<b>Emergent Behaviors in LLMs-Populated Societies</b> — •GIORDANO DE MARZO, CLAUDIO CASTELLANO, LUCIANO PIETRONERO, DAVID GARCIA

#### Invited Talks of the joint SKM Dissertationspreis 2025 (SYSD)

See SYSD for the full program of the symposium.

SYSD 1.1	Mon	9:30–10:00	H2	<b>Nanoscale Chemical Analysis of Ferroic Materials and Phenomena</b> — •KASPER AAS HUNNESTAD
SYSD 1.2	Mon	10:00–10:30	H2	<b>Advanced Excitation Schemes for Semiconductor Quantum Dots</b> — •YUSUF KARLI
SYSD 1.3	Mon	10:30–11:00	H2	<b>Aspects and Probes of Strongly Correlated Electrons in Two-Dimensional Semiconductors</b> — •CLEMENS KUHNENKAMP
SYSD 1.4	Mon	11:00–11:30	H2	<b>Mean back relaxation and mechanical fingerprints: simplifying the study of active intracellular mechanics</b> — •TILL MÜNKER
SYSD 1.5	Mon	11:30–12:00	H2	<b>Coherent Dynamics of Atomic Spins on a Surface</b> — •LUKAS VELDMAN

#### Invited Talks of the joint Symposium Nonequilibrium Collective Behavior in Open Classical and Quantum Systems (SYQS)

See SYQS for the full program of the symposium.

SYQS 1.1	Thu	15:00–15:30	H1	<b>Active quantum flocks</b> — REYHANEH KHASSEH, SASCHA WALD, RODERICH MOESSNER, CHRISTOPH WEBER, •MARKUS HEYL
SYQS 1.2	Thu	15:30–16:00	H1	<b>Robust dynamics and function in stochastic topological systems</b> — •EVELYN TANG
SYQS 1.3	Thu	16:00–16:30	H1	<b>Nonequilibrium Dynamics of Disorder-Driven Ultracold Fermi Gases</b> — •ARTUR WIDERA
SYQS 1.4	Thu	16:45–17:15	H1	<b>Topological classification of driven-dissipative nonlinear systems</b> — •ODED ZILBERBERG, GRETA VILLA, KILIAN SEIBOLD, VINCENT DUMONT, GIANLUCA RASTELLI, MATEUSZ MICHAŁEK, ALEXANDER EICHLER, JAVIER DEL PINO
SYQS 1.5	Thu	17:15–17:45	H1	<b>Learning dynamical behaviors in physical systems</b> — •VINCENZO VITELLI

**Sessions**

SOE 1.1–1.3	Mon	15:00–16:00	H45	<b>Econophysics</b>
SOE 2.1–2.1	Mon	16:15–17:30	H45	<b>Award Session: Young Scientist Award for Socio- and Econophysics (YSA)</b>
SOE 3.1–3.10	Mon	17:30–19:30	P4	<b>Poster</b>
SOE 4.1–4.8	Tue	9:30–12:00	H45	<b>Urban systems, Scaling, and Social Systems</b>
SOE 5.1–5.3	Tue	12:15–13:00	H45	<b>Agent-Based Modeling</b>
SOE 6.1–6.3	Tue	14:00–15:00	H45	<b>Political Systems and Conflicts</b>
SOE 7.1–7.10	Wed	9:30–12:45	H45	<b>Focus Session: Self-Regulating and Learning Systems: from Neural to Social Networks</b>
SOE 8.1–8.9	Wed	15:00–17:30	H45	<b>Networks, From Topology to Dynamics (joint session SOE/BP/DY)</b>
SOE 9	Wed	18:00–19:30	H45	<b>Members' Assembly</b>
SOE 10.1–10.11	Thu	15:00–18:15	H45	<b>Focus Session: Large Language Models, Social Dynamics, and Assessment of Complex Systems</b>

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

Wednesday 18:00–19:30 H45

- SOE poster award
- Report
- Election
- All other business