

Working Group "Young DPG" Arbeitskreis junge DPG (AKjDPG)

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Overview of Invited Talks and Sessions

(Lecture hall SCH/A101)

Invited Talks of the joint Symposium The Sustainability Challenge: A Decade of Transformation (SYSC)

See SYSC for the full program of the symposium.

SYSC 1.1	Mon	15:00–15:30	HSZ/AUDI	Open-Endedness and Community-Based Approaches to Sustainability Challenges — ●HIROKI SAYAMA
SYSC 1.2	Mon	15:30–16:00	HSZ/AUDI	Education as a Social Tipping Element: Evidence from Climate and Physics Education Research — ●THOMAS SCHUBATZKY
SYSC 1.3	Mon	16:00–16:30	HSZ/AUDI	Mechanistic and Material Perspectives on Enzymatic Hydrolysis of Semicrystalline Polyesters — ●BIRTE HÖCKER
SYSC 1.4	Mon	16:45–17:15	HSZ/AUDI	Decarbonization Options for Industry — ●UWE RIEDEL
SYSC 1.5	Mon	17:15–17:45	HSZ/AUDI	Impacts of Cosmic Dust and Space Debris in the Terrestrial Atmosphere — ●JOHN PLANE

Invited Talks of the joint Symposium AI and Data Challenges behind Emerging Self-Driving Laboratories (SYAI)

See SYAI for the full program of the symposium.

SYAI 1.1	Thu	9:30–10:00	HSZ/AUDI	Data and Experimental Foundations for Reliable Self-Driving Laboratories — ●DR. MARCUS TZE-KIAT NG
SYAI 1.2	Thu	10:00–10:30	HSZ/AUDI	Digital Catalysis - AI for Experiment Planning and Control — ●CHRISTOPH SCHEURER
SYAI 1.3	Thu	10:30–11:00	HSZ/AUDI	Autonomous, Data-Driven Workflows for Materials Acceleration Platforms with pyiron — ●JAN JANSSEN, JOERG NEUGEBAUER
SYAI 1.4	Thu	11:15–11:45	HSZ/AUDI	Machine Learning for Autonomous Optimization and Discovery of Materials — ●PASCAL FRIEDERICH
SYAI 1.5	Thu	11:45–12:15	HSZ/AUDI	Transforming Our View on Transformers in the Sciences — ●KEVIN MAIK JABLONKA

Invited Talks of the joint Symposium Tipping Points in Social and Climate Systems (SYTP)

See SYTP for the full program of the symposium.

SYTP 1.1	Thu	15:00–15:30	HSZ/AUDI	Social Tipping in Heterogeneous and Polarized Populations — ●SARA CONSTANTINO, SONKE EHRET, ELKE WEBER, SONJA VOGT, CHARLES EFFERSON
SYTP 1.2	Thu	15:30–16:00	HSZ/AUDI	Tipping points and regime shifts in coupled social-climate systems — ●CHRIS BAUCH
SYTP 1.3	Thu	16:00–16:30	HSZ/AUDI	How to tune Earth system models toward tipping? — ●SEBASTIAN BATHIANY, NIKLAS BOERS
SYTP 1.4	Thu	16:45–17:15	HSZ/AUDI	Algorithmic amplification and contextual sensitivity in political information exposure — IRIS DAMIÃO, ANA VRANIC, PAULO ALMEIDA, LÍLIA PERFEITO, ●JOANA GONÇALVES DE SÁ
SYTP 1.5	Thu	17:15–17:45	HSZ/AUDI	The complex interplay between democracy and platform power — ●PHILIPP LORENZ-SPREEN

Sessions

AKjDPG 1.1–1.4 Thu 9:30–11:30 SCH/A101 **Hacky Hour**