

Theoretical and Mathematical Physics Division

Fachverband Theoretische und Mathematische Grundlagen der Physik (MP)

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Overview of Invited Talks and Sessions

(Lecture halls 001 and 102; Poster B)

Invited Talks

MP 1.1	Mon	9:30–10:00	HL 001	Fractional Anderson model and long range self-avoiding random walk. — •MARGHERITA DISERTORI, CONSTANZA ROJAS-MOLINA, ROBERTO MATURANA
MP 3.1	Mon	15:00–15:30	HL 001	Rigorous results on many-body localization — •WOJCIECH DE ROECK
MP 6.1	Tue	9:30–10:00	HL 001	The mathematical physics of near-term quantum computing — •JENS EISERT
MP 6.2	Tue	10:00–10:30	HL 001	Quantum chaos, integrability, and the complexity of time evolution — •VIJAY BALASUBRAMANIAN
MP 8.1	Wed	9:30–10:00	HL 001	Embezzlement of entanglement, quantum fields, and the classification of von Neumann algebras — •ALEXANDER STOTTMEISTER
MP 10.1	Thu	9:30–10:00	HL 001	Conformal field theories from line defects and holography — •VALENTINA FORINI

Invited Talks of the joint Symposium Entanglement in Quantum Information, Condensed Matter and Gravity (SYQI)

See SYQI for the full program of the symposium.

SYQI 1.1	Wed	15:00–15:30	H 0105	The Quantum Internet: Concepts, Challenges and Progress — •RONALD HANSON
SYQI 1.2	Wed	15:30–16:00	H 0105	Strange metals - A platform to study entanglement in condensed matter? — •SILKE PASCHEN
SYQI 1.3	Wed	16:00–16:30	H 0105	Quantum black holes may not have interiors — •VIJAY BALASUBRAMANIAN
SYQI 1.4	Wed	16:30–17:00	H 0105	Gauge Symmetry-Resolved Entanglement in Lattice Gauge Theories: A Tensor Network Approach — NOA FELDMAN, JOHANNES KNAUTE, EREZ ZOHAR, •MOSHE GOLDSTEIN
SYQI 1.5	Wed	17:00–17:30	H 0105	Parameter estimation of gravitational waves with a quantum metropolis algorithm — •MIGUEL ANGEL MARTIN - DELGADO

Sessions

MP 1.1–1.9	Mon	9:30–13:00	HL 001	Many-body Theory I
MP 2.1–2.6	Mon	10:00–12:20	HL 102	Quantum Information and Gravity
MP 3.1–3.9	Mon	15:00–18:30	HL 001	Quantum Dynamics
MP 4.1–4.2	Mon	15:00–15:40	HL 102	Quantum Field Theory I
MP 5.1–5.4	Mon	16:00–17:20	HL 102	Theoretical Aspects of Condensed Matter I
MP 6.1–6.2	Tue	9:30–10:30	HL 001	Quantum Computing and Quantum Dynamics
MP 7.1–7.15	Tue	11:00–13:00	Poster B	Poster (joint session MP/QI)
MP 8.1–8.9	Wed	9:30–13:00	HL 001	Quantum Field Theory II
MP 9.1–9.8	Wed	9:30–12:30	HL 102	Theoretical Aspects of Condensed Matter II

MP 10.1–10.9	Thu	9:30–13:00	HL 001	AdS/CFT
MP 11.1–11.6	Thu	9:30–11:50	HL 102	Many-body Theory II
MP 12.1–12.2	Thu	15:00–15:40	HL 001	Hydrodynamics
MP 13.1–13.4	Thu	15:40–17:00	HL 001	Quantum Field Theory III
MP 14.1–14.2	Thu	15:45–16:25	HL 102	Mass and Momentum
MP 15	Thu	17:00–18:00	HL 001	Members' Assembly

Members' Assembly of the Theoretical and Mathematical Physics Division

Thursday 17:00–18:00 HL 001

- Report
- Organisation of future conferences and events