

## Working Group on Philosophy of Physics Arbeitsgruppe Philosophie der Physik (AGPhil)

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### Overview of Invited Talks and Sessions (Lecture hall HS XVII)

#### Plenary Talk of Michel Janssen

PLV IX Fri 9:00– 9:45 HS 1+2 **Building the Cathedral of Quantum Mechanics** — ●MICHEL JANSSEN

#### Invited Talks

AGPhil 3.1 Tue 11:00–11:45 HS XVII **Is there a mechanism that produces many parallel worlds?** — ●MEINARD KUHLMANN

AGPhil 4.1 Tue 14:00–14:45 HS XVII **History and Philosophy of Physics in Physics Education** — ●OLIVER PASSON

AGPhil 9.1 Thu 14:00–14:45 HS XVII **Waves in a turbulent sea: controversies over gravitational waves** — ●HENRIQUE GOMES

#### Invited Talks of the joint Symposium Quantum Science and more in Ghana and Germany (SYGG)

See SYGG for the full program of the symposium.

SYGG 1.1 Tue 11:00–11:05 WP-HS **Welcome Adress** — ●BIRGIT MÜNCH

SYGG 1.2 Tue 11:05–11:20 WP-HS **Quantum Education in Ghana** — ●DORCAS ATTUABEA ADDO

SYGG 1.3 Tue 11:20–11:45 WP-HS **Mathematical and Computational Physics Research In Ghana: To Cultivate a Knowledge-Based and Sustainable Development Economy** — ●HENRY MARTIN, HENRY ELORM QUARSHIE, MARK PAAL, FRANCIS KOFI AMPONG, ERIC KWABENA KYEH ABAVARE, MATTEO COLANGELI, ALESSANDRA CONTINENZA, JAIME MARIAN

SYGG 1.4 Tue 11:45–12:10 WP-HS **Forecasting the Economic Health of Ghana Using Quantum-Enhanced Long Short-Term Memory Model** — ●PETER NIMBE, HENRY MARTIN, DORCAS ATTUABEA ADDO, NICODEMUS SONGOSE AWARAYI

SYGG 1.5 Tue 12:10–12:40 WP-HS **Quantum Technology with Spins** — ●JOERG WRACHTRUP

SYGG 1.6 Tue 12:40–13:00 WP-HS **Renewable Energy Technologies for Rural Ghana: The Role of Appropriate Technology for Tailored solutions** — ●MICHAEL KWEKU EDEM DONKOR

#### Invited Talks of the joint Symposium Foundations of Quantum Theory (SYQT)

See SYQT for the full program of the symposium.

SYQT 1.1 Wed 11:00–11:30 HS 1+2 **Against ‘local causality’** — ●GUIDO BACCIAGALUPPI

SYQT 1.2 Wed 11:30–12:00 HS 1+2 **Philosophy of Quantum Thermodynamics** — ●CARINA PRUNKL

SYQT 1.3 Wed 12:00–12:30 HS 1+2 **Can quantum information be the underpinning of quantum physics?** — ●PAOLO PERINOTTI

SYQT 1.4 Wed 12:30–13:00 HS 1+2 **Spin-bounded correlations: rotation boxes within and beyond quantum theory** — ALBERT ALOY, ●THOMAS GALLEY, CAROLINE JONES, STEFAN LUDESCHER, MARKUS MÜLLER

## Prize and Invited Talks of the joint Awards Symposium (SYAS)

See SYAS for the full program of the symposium.

SYAS 1.1	Thu	14:30–15:10	HS 1+2	<b>A journey in mathematical quantum physics</b> — ●REINHARD F. WERNER
SYAS 1.2	Thu	15:10–15:50	HS 1+2	<b>Precision Tests of the Standard Model at Low Energies Using Stored Exotic Ions in Penning Traps</b> — ●KLAUS BLAUM
SYAS 1.3	Thu	15:50–16:30	HS 1+2	<b>Controlling light by atoms and atoms by light: from dark-state polaritons to many-body spin physics</b> — ●MICHAEL FLEISCHHAUER
SYAS 1.4	Thu	16:30–16:35	HS 1+2	<b>Quantum history at your fingertips: Launch of the DPG’s Quantum History Wall</b> — ●ARNE SCHIRRMACHER

## Sessions

AGPhil 1.1–1.4	Mon	14:30–16:30	HS XVII	<b>Foundations of Physics I</b>
AGPhil 2.1–2.4	Mon	17:00–19:00	HS XVII	<b>Foundations of Physics II</b>
AGPhil 3.1–3.3	Tue	11:00–12:45	HS XVII	<b>Foundations of Quantum Mechanics: The Measurement Problem and the Many Worlds Interpretation</b>
AGPhil 4.1–4.3	Tue	14:00–15:45	HS XVII	<b>Integrated History and Philosophy of Quantum Mechanics</b>
AGPhil 5.1–5.5	Wed	14:00–16:30	HS XVII	<b>Foundations of Quantum Mechanics I</b>
AGPhil 6.1–6.5	Wed	17:00–18:15	HS XVII	<b>History and Philosophy of Physics</b>
AGPhil 7	Wed	18:30–19:00	HS XVII	<b>Members’ Assembly</b>
AGPhil 8.1–8.4	Thu	11:00–13:00	HS XVII	<b>Foundations of Quantum Mechanics: Bohm and Hidden Variables</b>
AGPhil 9.1–9.3	Thu	14:00–15:45	HS XVII	<b>History and Philosophy of General Relativity</b>
AGPhil 10.1–10.4	Thu	17:00–19:00	HS XVII	<b>Foundations of Quantum Mechanics II</b>
AGPhil 11.1–11.4	Fri	11:00–13:00	HS XVII	<b>Philosophy of Particle Physics and Quantum Field Theory</b>
AGPhil 12.1–12.4	Fri	14:00–16:00	HS XVII	<b>Foundations of Classical and Quantum Mechanics</b>

## Members’ Assembly of the Working Group on Philosophy of Physics

Mittwoch 18:30–19:00 HS XVII

- Bericht
- Planung 2025/26
- Wahlen
- Verschiedenes