

Quantum100 AI Workshop

Mittwoch, 12. November 2025

Plenary: Day 1 Session 1 (14:30 - 16:00)

-Vorsitzende der Sitzung: Kai Schmitz

time	[id] title	presenter
14:30	[9] Understanding diffusion models by Feynman's path integral	HIRONO, Yuji
15:00	[22] Train by tunneling: Quantum annealing for AI optimization	SPANNOWSKY, Michael
15:30	[21] Building an AI generator for quantum gravity	SHIU, Gary

Donnerstag, 13. November 2025

Plenary: Day 2 Session 1 (09:00 - 10:30)

time	[id] title	presenter
09:00	[12] Connecting string theory with particle physics and cosmology via AI	KRIPPENDORF, Sven
09:30	[10] The road to AI-based discoveries	KASIECZKA, Gregor
10:00	[23] From Ising to QCD: Phases, symmetry, and AI	TOMIYA, Akio

Plenary: Day 2 Session 2 (11:00 - 12:30)

time	[id] title	presenter
11:00	[20] Generative AI for brane configurations and gauge theory phases	SEONG, Rak-Kyeong
11:30	[17] High-energy colliders are quantum machines	RODRIGO, Germán

Plenary: Day 2 Session 3 (15:00 - 16:00)

time	[id] title	presenter
15:00	[13] Self-learning Monte Carlo method with equivariant transformer	NAGAI, Yuki
15:30	[18] Interpretable AI for scientific discovery	RUEHLE, Fabian

Plenary: Day 2 Session 4 (16:30 - 17:30)

time	[id] title	presenter
16:30	[19] AI augmented event generation for collider physics	SCHUMANN, Steffen
17:00	[7] Quantum AI: Toward the next revolution driven by quantum computing and AI	FUJII, Keisuke

Freitag, 14. November 2025

Plenary: Day 3 Session 1 (09:00 - 10:00)

time	[id] title	presenter
09:00	[11] Deep learning spacetime from quantum data	KIM, Keun-Young
09:30	[14] Language of jets with transformers	NOJIRI, Mihoko

Plenary: Day 3 Session 2 (10:30 - 11:30)

-Vorsitzende der Sitzung: Koji Hashimoto

time	[id] title	presenter
10:30	[8] AI-assisted theoretical discovery	HE, Yang-Hui
11:00	[16] Representation learning for LHC physics	PLEHN, Tilman