

RQI-N 2025: Plenary talks of **Keynote** and other invited speakers

	Speaker	Title
Achim	Kempf	Generalizing Noether: the metric from energy-momentum non-conservation
Časlav	Brukner	Revisiting Einstein's Equivalence Principle in the Quantum Realm
Chris	Fewster	Measurement problem (and protocols) in QFT on curved spacetimes and in quantum gravity
Daniel	Carney	Prospects for detection of single gravitons and implications
Doreen	Fraser	Philosophy and history of QFT
Eduardo	Martín-Martínez	State updates and useful qubits in relativistic quantum information
Emily	Adlam	Causality in relativity, philosophy and causal modeling
Enrico	Calloni	Weighing the vacuum with the Archimedes experiment
Fabio	Costa	TBA
Flaminia	Giacomini	Quantum Systems as References
Flavio	Mercati	Quantum reference frames, quantum observers and quantum spacetime
Gabriele	Rosi	Atom interferometry applied to gravitational measurements
Giulia	Gubitosi	TBA
Harry	Buhrman	Quantum Position Verification, Quantum Nonlocal Computation, and Surprising Connections with Holography and classical cryptography
Hing-Tong	Cho	Gravitational decoherence and entanglement
Jorma	Louko	Title: Waiting around for Unruh
Kinjalk	Lochan	Recent Advancements in cavity controlled Quantum Field effects
Kristina	Giesel	Gravitational Decoherence from Loop Quantum Gravity
Leonardo	Castellani	Space and time correlations in quantum histories
Lin-Qing	Chen	Quantum diffeomorphisms and quantum reference frames
Mirjam	Weilenmann	Quantum information protocols in spacetime and relativistic causality
Paolo	Perinotti	Quantum foundations and causality
Ralf	Schützhold	Stimulated emission or absorption of gravitons by light
Richard	Howl	Advances in tabletop tests of quantum features of gravity
Robert	Mann	Sensing Superposed Spacetime
Silke	Weinfurter	Quantum Simulators for Fundamental Physics
Stefano	Cusumano	Harvesting stabilizer entropy and non-locality from a quantum field
Suprit	Singh	Quantum information and the role of entanglement in fundamental quantum gravity (beyond semiclassical gravity or AdS/CFT)