

Multimessenger Astronomy Beyond the Standard Model and Quantum Sensing (Q-EYES 2025)

Tuesday, 9 December 2025

Plenary Session (10:00 - 11:30)

time	[id] title	presenter
10:00	[1] Quantum sensor networks as exotic field telescopes for multi-messenger astronomy	DEREVIANKO, Andrei
10:30	[2] Multimessenger Astronomy Beyond the Standard Model: New Window from Quantum Sensors	ARAKAWA, Jason
11:00	[3] Observing Dark Matter Decays to Gravitons via Graviton-Photon Conversion	KRNJAIC, Gordan

Plenary Session (13:00 - 14:30)

time	[id] title	presenter
13:00	[4] High frequency gravitational waves from reheating	NAKAYAMA, Kazunori
13:30	[5] Principles and fundamental-physics applications of diamond quantum sensors	MIZUOCHI, Norikazu
14:00	[6] Light dark-matter search with nitrogen-vacancy centres in diamond	HERBSCHLEB, David

Plenary Session (15:00 - 16:00)

time	[id] title	presenter
15:00	[7] Multi-messenger astronomy with spin-based quantum sensors	WICKENBROCK, Arne
15:30	[8] Beyond Qubits: Multilevel Quantum Sensing for Dark Matter	MA, Xiaolin

Wednesday, 10 December 2025

Plenary Session (09:30 - 10:30)

time	[id] title	presenter
09:30	[19] Casimir force computation technique for emerging materials	IIZUKA, Hideo
10:00	[11] Searching for Astrophysical Signatures of ultralight dark matter in pulsars and lensing	EBERHARDT, Andrew

Plenary Session (11:00 - 12:00)

time	[id] title	presenter
11:00	[13] Laser interferometric searches for gravitational waves and ultralight dark matter	MICHIMURA, Yuta
11:30	[12] Space gravitational wave experiments	IZUMI, Kiwamu

Plenary Session (13:30 - 15:00)

time	[id] title	presenter
13:30	[14] Super-Kamiokande Supernova monitoring: a trigger for multi-messenger analysis	PRONOST, Guillaume
14:00	[15] Multimessenger Searches for Dark Matter Powered Stars	SCHWEMBERGER, Thomas
14:30	[27] Spacetime symmetry tests with neutrinos	KATORI, Teppei

Plenary Session (15:30 - 16:30)

time	[id] title	presenter
15:30	[20] Development of a trapped-ion nuclear clock for fundamental physics research	YAMAGUCHI, Atsushi
16:00	[25] Enhancing the Dynamic Range of Quantum Sensing via Quantum Circuit Learning	MATSUZAKI, Yuichiro

Thursday, 11 December 2025

Plenary Session (09:30 - 10:30)

time	[id] title	presenter
09:30	[18] Applications of TES X-ray microcalorimeters in Accelerator-based Experiments	HASHIMOTO, Tadashi
10:00	[10] Gravitational Wave Sources and Origin of Massive Binary Black Holes	KINUGAWA, Tomoya

Plenary Session (11:00 - 12:00)

time	[id] title	presenter
11:00	[21] Hunting Dark Matter at Kamioka Underground	BUI, Khai
11:30	[22] Neutrino Measurements and Neutrinoless Double-Beta Decay Search with KamLAND	ISHIDOSHIRO, Koji

Plenary Session (13:30 - 14:30)

time	[id] title	presenter
13:30	[23] Use of entanglement of quantum sensors for detecting dark matter	FUKUDA, Hajime
14:00	[24] Wave-like dark matter searches in DarQ experiment	CHEN, Shion

Plenary Session (15:00 - 16:00)

time	[id] title	presenter
15:00	[26] SRF cavity searches for New Physics	SHU, Jing
15:30	[17] Probing New Frontiers of Astroparticle and Astrophysics with Cryogenic Quantum Sensor	ZHOU, Yu