GRAvitational-waves Science&technology Symposium (GRASS 2024)

Tuesday, 1 October 2024

Reduction of quantum noise in interferometric gravitational wave detectors: Chair: Jean-Pierre Zendri - Aula Kessler (08:30 - 11:00)

time	[id] title	presenter
08:30	[19] Machine-learning enhanced quantum state tomography and its applications to the gravitational wave detectors	Prof. LEE, Ray-Kuang
09:00	[20] Two-color Einstein-Podolsky-Rosen entangled state in the sub-kHz regime	GRIMALDI, Andrea
09:20	[11] Towards quantum-enhanced gravitational wave detection using entangled light and atomic spin oscillator	NOVIKOV, Valeriy
09:40	[1] Resonant behavior of linear three-mirror cavities in the context of quantum noise reduction	STEVENS, Paul
10:00	[10] Balanced homodyne detection design and application at the 10m Prototype sub-SQL interferometer	CARLASSARA, Matteo
10:20	[16] Study of the optical losses as a function of beam position on the mirrors in a 285 m suspended Fabry-Perot cavity	ZHAO, Yuhang
10:40	[21] Contribution of the contrast defect and control sidebands to the phase noise in Advanced Virgo Plus	SEQUINO, Valeria