GWADW2023 - Gravitational-Wave Advanced Detector Workshop

martedì 23 maggio 2023

Tuesday Poster session (18:00 - 19:30)

[id] title	presenter	board
[8] Predicting the motion of a high-Q pendulum subject to seismic perturbations using machine learning	HARTWIG, Daniel	
[14] Laser Welding the 100 g Mirrors for the AEI 10 m Prototype Suspensions with Micrometer Precision	VON WRANGEL, Juliane	
[22] Instrumented baffles for Advanced Virgo +	MACQUET, Adrian	
[29] A direct mode mismatch sensing scheme between the recycling cavities and arms.	Dr. GOODWIN-JONES, Aaron	
[31] Vibration attenuation system for a cryogenic Coating Thermal Noise measurement setup	PORCELLI, Enrico	
[18] Astigmatic mode mismatch sensing for the next gravitational wave detectors	PERRECA, Antonio	
[27] Torsion-Bar Antenna and its Angular Sensor	Sig.na OSHIMA, Yuka	
[32] Optical simulations for the aberration control in VnEXT	LORENZINI, Matteo	
[21] LIDA: A Detector for Axions and a Testbed for GW Detectors	GILL, Alex	
[23] Coating thermal noise mitigation through multi mode readout	ZHANG, Jue	
[24] Optical resonator-based precision displacement sensing using GHz phasemeters	Sig. CHALATHADKA SUBRAHMANYA, Shreevathsa	
[3] Stabilized laser system at 1550 nm wavelength for the ET-LF interferometers	MEYLAHN, Fabian	
[9] Bright Squeezed Light Generation and Quantum Correlation Measurements	VENNEBERG, Jasper	
[26] Study and mitigation of the Virgo air conditioning system noise	Dr. TRINGALI, Maria Concetta	
[4] A Novel Bipolar Passive Charge Management System for Contactless Test Masses Using Slow Photoelectrons	BUCHMAN, Saps	
[13] Compact Optical Vault Grade Inertial Sensors.	CARTER, Jonathan	
[5] Characterization of heterodyne phase locking for a Newtonian force sensor	KULUR RAMAMOHAN, Avanish	ו
[1] Squeezed light for the low-frequency interferometers of ET	MEYLAHN, Fabian	
[38] Single frequency thulium fibre lasers between 1900nm and 2050nm	BOLINGBROKE, Georgia	
[97] Developement of the optical lock-in phase camera	SCHIWORSKI, Mitchell	
[40] Mechanical and Optical Design of TCS Test Facility	SIMMONDS, Madison	
[69] Methods for Cryogenic Mechanical Loss Measurements	MERENI, Lorenzo	
[65] IBS TiO2:GeO2 single layer and HR stacks coating Q measurements and modelling	MCGHEE, Graeme	
[47] Mechanical and Optical Characterization of sputtered amorphois GaN thin film for high reflectivity and low-loss coatings	LUMACA, Diana	
[76] Juggled interferometer for gravitational wave detection	Sig.na WU, Bin	

[50] Test facility for experimental investigations of the He-II based ET-LF payload cooling concept	KOROVESHI, Xhesika
[52] Development status of the inner thermal shielding for the ET-LF cryogenic payloads	BUSCH, Lennard
[44] Towards a NEMO prototype	Dr. GOODWIN-JONES, Aaron
[100] The statics of the maraging blades in SuperAttenuators: simulation and tests	CHESSA, Piero
[98] Observation and interpretation of bichromatic thermal detuning in Virgo filter cavity	ZHAO, Yuhang
[54] A study of suspensions with flexures in compression for cryogenic mirrors	ZEOLI, Morgane
[51] SPARSE: a high performance scatterometer with imaging ability	BOLLIAND, Adrien
[72] OctoPyus: a package to simulate seismic isolation systems for the third-generation Gravitational Wave detectors	RAZZANO, Massimiliano
[93] The crystallization process in amorphous Ta2O5 thin films.	Dr. FAVARO, Giulio
[80] Exploring the Mass of Gravitons through Strong Lensing in the Next Generation of Gravitational Wave Detectors	GENG, Shuaibo
[33] Mitigation of non-axisymmetric optical aberrations in Advanced Virgo plus	TARANTO, Claudia
[99] Detuning the signal recycling cavity in AdV+	DING, Jacques
[95] Upgrades of the reference actuator for the calibration of Advanced Virgo+	LAGABBE, Paul
[43] Jiggled interferometer for ground-based low-frequency gravitational wave detector	IWAGUCHI, Shoki
[88] Mode matching sensing through RF Higher Order Modulation method	CHIARINI, Gabriella
[59] Mode mismatch impact on squeezed light in ET	KOROBKO, Mikhail
[75] Towards birefringence mitigation	EISENMANN, Marc
[46] Low energy electrons to neutralize electrostatic charges on cryogenic test mass mirrors.	CIMINO, Roberto
[79] The Gravitational Wave Sky Simulator: a new package for fast simulations of gravitational wave sources	PAPALINI, Lucia
[82] Gravitational Wave Data Manager – A Python package for managing multichannel gravitational wave data	PALAIA, Maria Antonietta
[90] Sensitivity optimization method for DECIGO: Combination of multiple detector outputs using the square completion method	ISHIKAWA, Tomohiro
[92] Dark matter Axion search with riNg Cavity Experiment DANCE: Latest optical system and sensitivity	FUJIMOTO, Hiroki
[83] Alignment Sensing and Control of Laser Interferometer for DECIGO and B-DECIGO	ONO, Masaya
[49] Current status of experiments to verify the principle of quantum locking for DECIGO	KAWASAKI, Yuki
[96] Quantum Noise Reduction in Gravitational Wave Detector DECIGO by Quantum Locking including Cavity Detuning and Homodyne Detection	TSUJI, Kenji
[78] An Interferometric Instrument for the Determination of Spectral and	KHAN, Imran
Angular Dependence of Back-reflected Light from Smooth Optical Surfaces	
Angular Dependence of Back-reflected Light from Smooth Optical Surfaces [71] Treatment of Vacuum Fields in Cavity with Diffraction Loss for Space Gravitational Antenna DECIGO	UMEMURA, Kurumi

[57] Practical quantum noise estimate of optical-spring quantum locking for space gravitational wave detector DECIGO	SHIMIZU, Ryuma
[81] Machine learning for glitches classification in Advanced Virgo O3	VACATELLO, Michele
[86] Scattered light noise from suspended optics in Virgo and LIGO Hanford	POLINI, Eleonora
[111] Towards a monolithic suspension for the Einstein Telescope: crystalline silicon welding	PIERGIOVANNI, Francesco
[122] Balanced Homodyne Readout at the 40m Prototype Interferometer	ARAI, Koji
[101] Faraday isolators for future gravitational-wave detectors - Characterization of a commercial isolator at 2052 nm and plans for Voyager.	MARTIN, Rodica
[103] The Low-Frequency frontier. Exploring the impact of low-frequency sensitivity on the detection of transient sources	RAZZANO, Massimiliano
[128] Cryogenic payload prototype at ARC	MAJORANA, Ettore
[105] Compact displacement sensors using Deep-Frequency Modulation Interferometry	GERBERDING, Oliver
[123] First demonstration of neural sensing and control in a kilometer-scale gravitational wave observatory	ANDRIC, Tomislav
[106] Experimental validation for low frequency isolation of six degree of freedom systems using inertial sensors	LAKKIS, Mouhamad Haidar