

Session Program

May 17 - 21, 2021



GWADW2021 Gravitational Wave Advanced Detector Workshop

Poster session 2

remote

Thu, May 20

4:00 PM

Poster session 2: Poster session 2

Session | Location: remote

4:00 – 4:01 PM

Actuation time optimization in the Advanced Virgo mirror thermo-elastic correction

Speaker

Enrico Porcelli

4:01 – 4:02 PM

Geophysical imaging and characterization to study the implementation of the Einstein Telescope infrastructure

Speaker

Marius Waldvogel

4:02 – 4:03 PM

Characterization of Sputtered Amorphous GaN Film for High-Reflectivity and Low Loss Coatings

Speaker

thu ha dao

4:03 – 4:04 PM

Squeezing in higher-order Hermite-Gaussian modes

Speaker

Joscha Heinze

4:04 – 4:05 PM

Fabrication considerations of large-scale silicon mirrors for future cryogenic gravitational wave detectors

Speakers

Peter Murray, Maya Kinley-Hanlon

4:05 – 4:06 PM

Birefringence measurement of a sapphire mirror for KAGRA

Speaker

Homare Abe

4:06 – 4:07 PM

Feasibility Study of the Einstein Telescope - Geological Exploration

Speaker

Mr Jonathan Zinser

4:07 – 4:08 PM

Mitigation of the electrostatic charge on test mass mirrors in gravitational wave detectors

Speaker

Marco Angelucci

4:09 – 4:10 PM

2um laser R&D plans at Cardiff University

Speaker

Keiko Kokeyama

4:10 – 4:11 PM

Squeezed light at 2128 nm for future gravitational-wave observatories**Speaker**

Julian Gurs

4:11 – 4:12 PM

Beam suspensions for cryogenic mirrors**Speaker**

Riccardo DeSalvo

4:12 – 4:13 PM

Radiative mirror thermal compensation system**Speaker**

Riccardo DeSalvo

4:13 – 4:14 PM

Mechanical parametric feedback-cooling for pendulum-based gravity experiments**Speaker**

Daniel Hartwig

4:14 – 4:15 PM

Overview of possible multimaterial designs for improving current coatings**Speaker**

Jessica Steinlechner

4:15 – 4:16 PM

Studies of coating absorption for future detectors**Speakers**

Mr Graeme McGhee, Ross Johnston

4:16 – 4:17 PM

Investigation and mitigation of anomalous power absorptions in the Advanced Virgo Plus core optics**Speaker**

Maria Cifaldi

4:17 – 4:18 PM

The A+ Low-Loss Faraday Isolators**Speaker**

Dr Rodica Martin

4:18 – 4:19 PM

A new experimental set-up for scattering studies of mirror coatings**Speaker**

Prof. Antonios Kontos

4:20 – 4:21 PM

Implanted Oxygen Ions in Silicon and the Implication for Future Gravitational Wave Mirrors**Speaker**

Maya Kinley-Hanlon

4:21 – 4:22 PM

Mechanical loss studies at Maastricht University

Speaker

Viola Spagnuolo

4:22 - 4:23 PM

Influence of environmental noise on Virgo detector during O3**Speaker**

Francesco Di Renzo

4:23 - 4:24 PM

Towards low suspension thermal noise of cryogenic torsion pendulums with crystalline fibres**Speaker**

Ching Pin Ooi

4:24 - 4:25 PM

Measurements of multi-material coatings using a cryogenic nodal support**Speaker**

Simon Tait

4:25 - 4:26 PM

Measurement of the thermo-optic effect in IBS SiNx coating**Speaker**

Matteo Bischì

4:26 - 4:27 PM

Stabilization of a parametric signal-amplification system using a digital signal-processing device**Speaker**

Kaïdo Suzuki

4:27 - 4:28 PM

Sensor Placement Optimization for Broadband Newtonian Noise Cancellation in GW Detectors**Speaker**

Ms Roselyn Jose

4:28 - 4:29 PM

Molecular Dynamics simulations to study dissipation in amorphous SiNx**Speaker**

Francesco Puosi

4:56 PM