



# GRAvitational-waves Science&technology Symposium (GRASS 2024)

## Monday, 30 September 2024

### Coating and Materials: Chair: Marco Bazzan - Aula Kessler (13:50 - 16:00)

time	[id] title	presenter
13:50	[46] Mirror coatings for next-generation detectors: what do we need	SCHIETTEKATTE, François
14:20	[2] Mirrors Design for Future Gravitational-Wave Detectors	AMATO, Alex
14:40	[45] Reduction of mirror coating thermal noise via thermal treatment and material optimization.	Dr MILOTTI, Valeria
15:00	[15] Real-time monitoring of thermal annealing as a tool to enhance the properties of coatings for GWD mirrors.	MAGNOZZI, Michele Ms SAMANDARI, Shima
15:20	[18] Raman spectra of $\text{Ta}_2\text{O}_5$ : a first-principles analysis	GIACOMAZZI, Luigi
15:40	[38] Characterization of Amorphous Silica Coatings for Gravitational Wave Detectors: A Multitechnique Spectroscopic Approach	BRENDA, Bracco

### Coating and Materials: Chair: Elisabetta Cesarini - Aula Kessler (16:30 - 18:50)

time	[id] title	presenter
16:30	[17] Molecular dynamics study of the formation of porous films by room-temperature physical vapor deposition of silica	Prof. LEMAITRE, Anael
16:50	[37] Internal friction of silica membranes at high frequencies	BALDI, Giacomo
17:10	[44] Measuring coating loss angle in thermoelastic-dominated crystalline substrates for new generation gravitational wave detectors	FABRIZI, Federica
17:30	[8] Investigating Crystalline Corundum Coatings for Low-Noise Cryogenic Interferometers	BINETTI, Alberto
17:50	[42] Development of femtoAmpere photo-current measurement facility in preparation of LISA Charge Management System end-to-end discharge test	VENTURELLI, Francesco
18:10	[34] Surface properties of gold coated surfaces used in the discharge system of LISA.	KLASER, Teodoro
18:30	[9] Growth of monocrystalline silicon fibers for mirror suspension in gravitational-wave detectors	Dr BUCHOVSKA, Iryna