

GRAvitational-waves Science&technology Symposium (GRASS 2019)



Thursday, 24 October 2019 - Friday, 25 October 2019

Palazzo Moroni, Padova

Scientific Programme

Thermal noise in and out of thermodynamic equilibrium

Invited speaker: dr. Ignacio A. Martinez (Universidad Complutense de Madrid).
Talk title: Faster than Nature: Engineered swift equilibration of small systems

Advanced cryogenics

Invited speaker: dr. Takafumi Ushiba (ICRR)
Talk Title: Cryogenic mirror suspension in KAGRA

Ultra-low-noise optical coatings

Invited speaker: dr. Anaël Lemaitre (Laboratoire Navier)
Talk title: Numerical modelling of low-T oxide film growth

New strategies for quantum noise reduction

Invited speaker: Dr. Denis Martinov
Talk title: Studies of quantum noise in GW detectors, optomechanical experiments, and axion searches

Other challenges for future GW detectors

Invited Speaker: prof. Stefano Vitale
Talk title: Space-borne GW detectors

Invited speaker: dr. Ettore Majorana
Talk title: Third Generation Gravitational Wave detectors: the challenge of Einstein Telescope in Europe