## Workshop Goals

Low frequency

### Seismic Arrays Tuesday I

Xander Campman (Shell)

Ambient seismic noise and its potential use in seismic exploration and monitoring

Jenne Driggers (LHO)

Seismic array measurements at Hanford for NN R&D

- What seismic measurements need to be done in the next 10 years at the existing sites and for third-generation detectors?
- How should we develop effective array designs for NN cancellation?

## Low-Frequency Gravity Strainmeters Tuesday II

Masaki Ando (Uni Tokyo)

Current status of Phase-III

TOBA

Bram Slagmolen (ANU)

TOPEDO torsion-bar experiment

Fiodor Sorrentino (INFN)

Sensitivity limits of atom interferometric gravity gradiometers and strainmeters

- What are the main challenges to achieve 10<sup>-15</sup>HZ<sup>-1/2</sup> at 0.1HZ?
- What can we do with gradiometers that have 10<sup>-15</sup>HZ<sup>-1/2</sup> at 0.1HZ?

### Seismic Sensors Thursday I

Maria Bader (Nikhef)

Sensor development and characterization at Nikhef

Boris Boom (Nikhef)
Seismic MEMS sensors

Conor Mow-Lowry (Uni Birmingham)

Low-frequency seismic sensors

- Considering all conceivable applications in the foreseeable future, what sensor sensitivities do we need to do all of this?
- How to model thermal noise in «springantispring» systems?

# Sensors / Newtonian-Noise Models Thursday II

Sophie Pelisson

(Uni Bordeaux)

NN modeling and cancellation in atom interferometric gravity strainmeters

Angela di Virgilio (INFN)

Seismic rotational measurements

Donatella Fiorucci (APC)

Atmospheric NN models

- What effects need to be described with finite-element numerical simulations of atmospheric NN?
- How do correlations of NN from different types of sources between test masses change as a function of test-mass separation?