

Artemis

- Artemis is one of the 3 laboratories hosted at the Observatoire de la Côte d'Azur in Nice.
- Created in 1999 by Alain Brillet, one of the founder father of the Virgo project.
- Main science topic: gravitational waves from theory to detectors passing through data analysis and astrophysics.
- ~40 members, including permanents, PhD and postdocs.



Teams @ Artemis

- GW projects:
 - Virgo, LISA and Einstein Telescope
- Laser & cavities
- Metrology
- MIGA (atomic GW detector)
- GW data analysis
- Alternative theories to general relativity



Focusing on gravitational wave physics

Virgo group

- High power stabilized laser



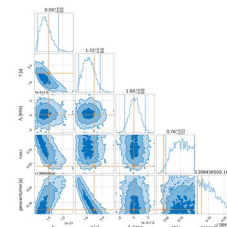
- Scattered light measurement



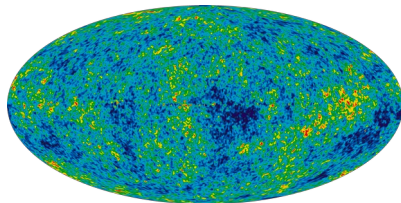
- Search for new transient sources



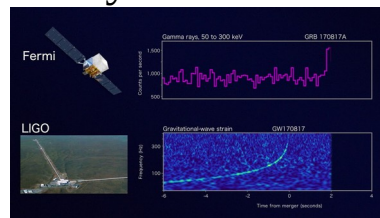
- Burst source parameter estimation



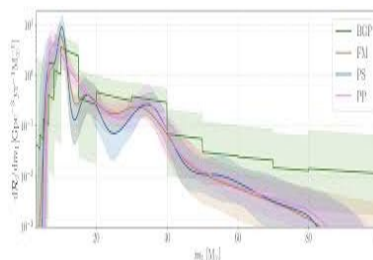
- Background GW search



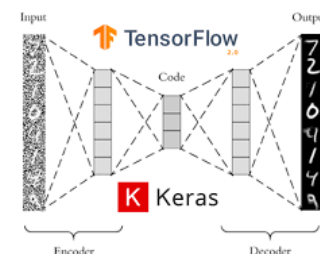
- Multi-messenger analysis



- CBC population

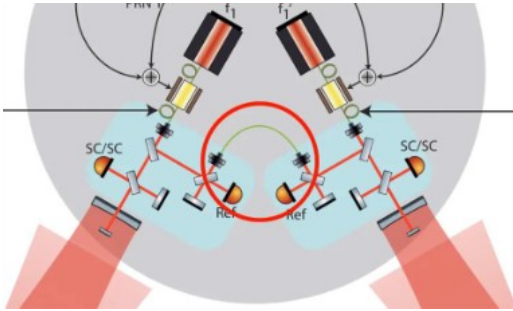


- Machine learning for GW detection

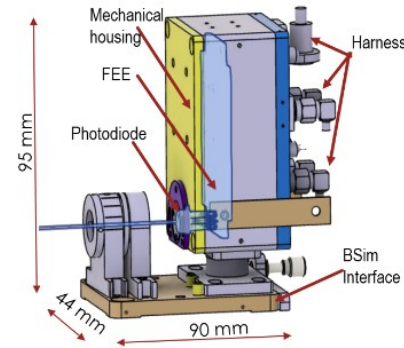


LISA group

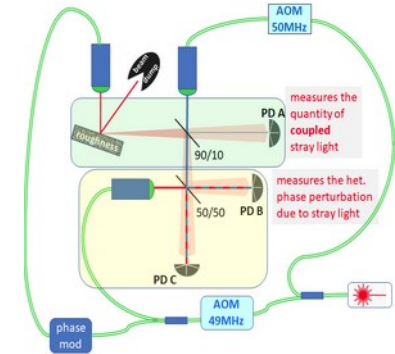
- Stray light studies



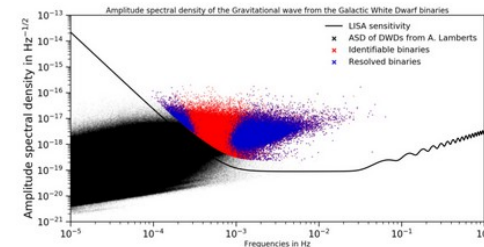
- Photodiodes radiation test



- Prototype SL-OGSE



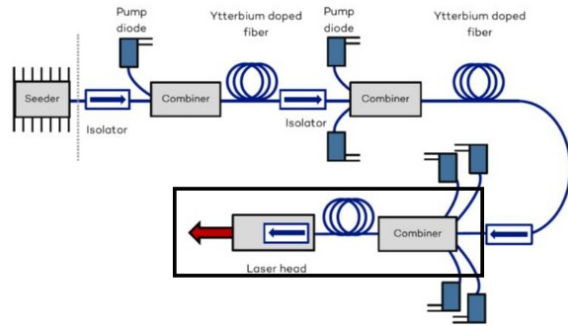
- Population studies



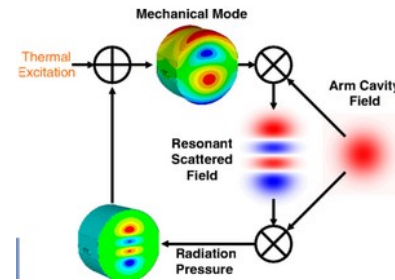
LISA Distributed Data
Processing Center: catalogue

Einstein Telescope group

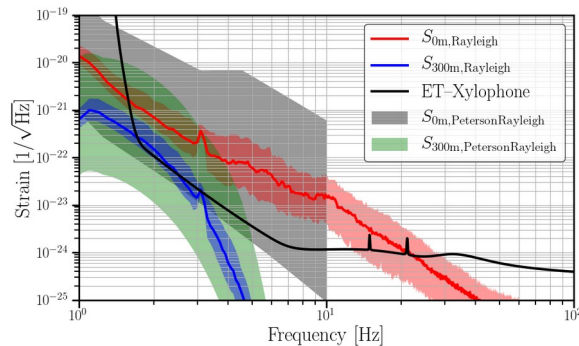
- High power Laser



- Optomechanics



- Correlated noise studies



- Core collapse supernova PE

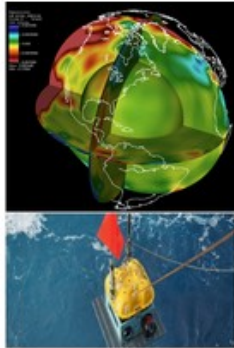


Artemis @ OCA

- Permanent members:
 - MA Bizouard, N Christensen, W Chaibi, F Cleva, JP Coulon, N Dinu-Jaeger, N Korsokova, H Heitmann, A Lamberts, M Lintz, M Merzougui, M Nardello, M Pichot, E Polini, M Trad Nery, M Turconi.
- Postdoc
 - G Boileau, S Galaudage, J Suresh
- PhD
 - H Einsle, Alice Perogo

OCA environnement

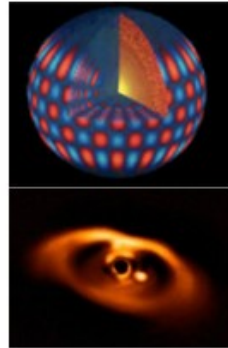
**Risques
naturels
et anthropiques**



**Dynamique
du système Terre**



**Etoiles planètes
exoplanètes**



**Galaxies
cosmologie**



**Ondes
gravitationnelles**



**Planètes
terrestres**

**Ondes gravitationnelles
multimessagers**

Instrumentation-calcul-data

Services nationaux d'observation