

Introduction of Ando Lab

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What are we working on?

It's not perfectly correct.

Ando Lab member



Gravitational-waves!

Other people

Experiments with laser interferometers for precision measurement

- Gravitational-waves
- Axion dark matter
- The speed of light
- Quantum mechanics
- Earthquakes
- \vdots

Research topics of Ando Lab

Large-scale project



Small-scale exp.

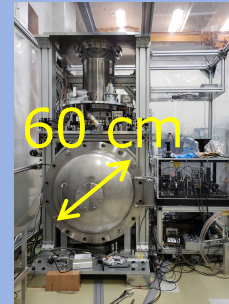
KAGRA

- GW detector at Kamioka
- Start observation in 2020



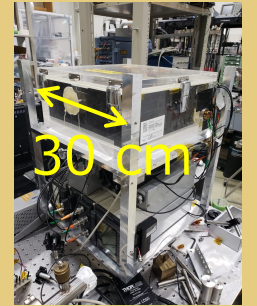
TOBA

- GW detector at Ando Lab
- Currently prototype developing



Tests of Lorentz invariance

- Anisotropy observation of the speed of light
- World best limit in 2012



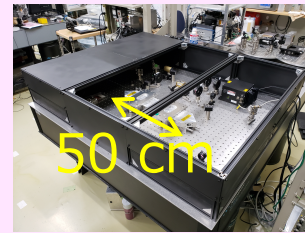
DECIGO

- GW detector in space
- Ground-based demonstration underway



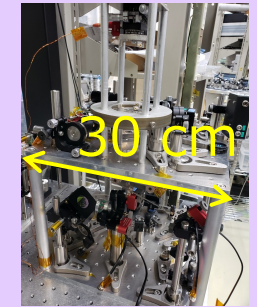
DANCE

- Axion dark matter search exp.
- Prototype exp. ongoing



Optical levitation

- Mirrors levitated by radiation pressure
- Proof-of-concept exp. completed



Opt-mechanics experiments

- Tests of quantum mechanics at mg-scale
- Suitable experimental setup proposed

