



Biennale APC – Newcomers

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Background

- Optical engineer, part of APC's Instrumentation service
- Internship at APC starting in Oct 2022 (Virgo)
- Short term contract starting in March 2023 (Virgo/Einstein Telescope)
- « Fonctionnaire stagiaire » since Dec 2023 (Virgo/LISA)

- Projects

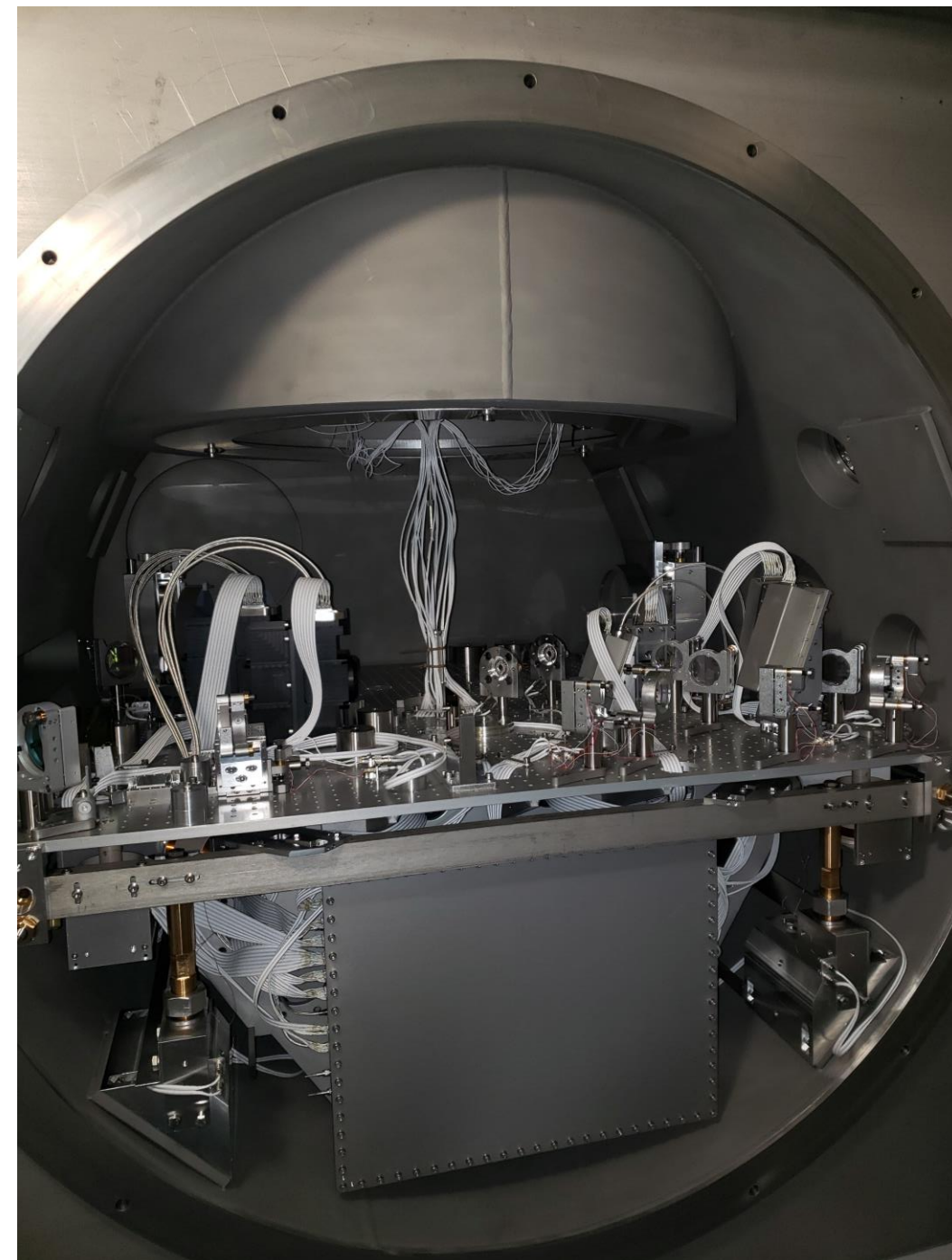
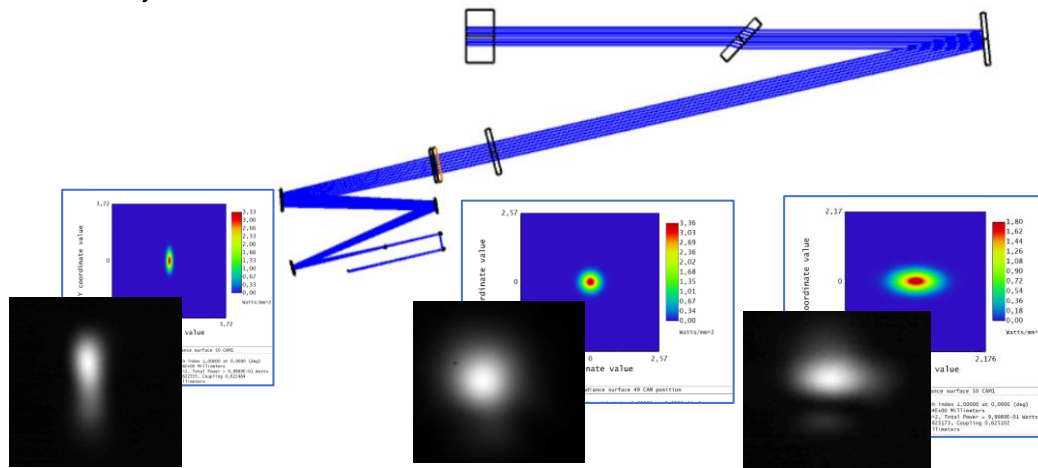
- Virgo
- LISA
- ET



Activities

Virgo

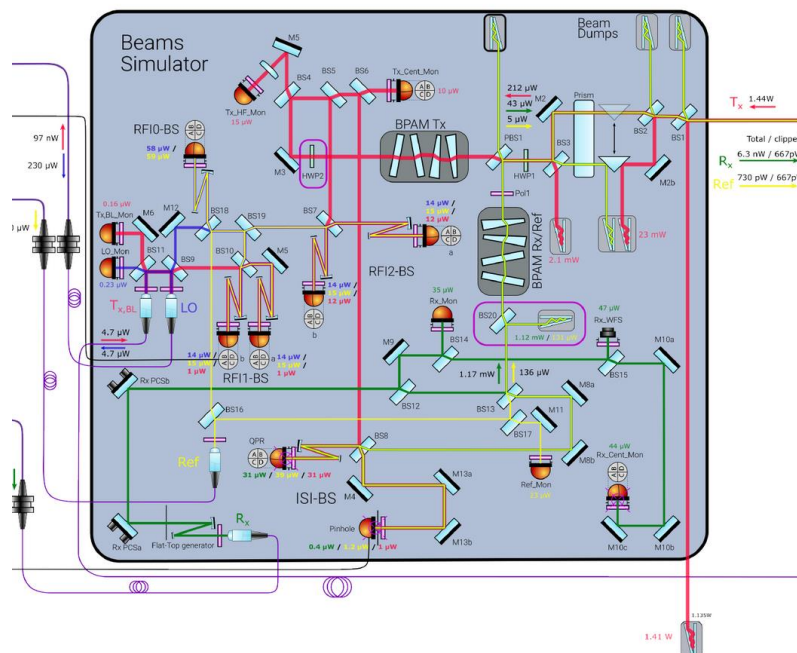
- Contribution to the commissioning of the instrument for O4
 - Optical characterization of the arm cavities
 - Optical simulations (injection, investigation of astigmatism on one of the telescopes)
- Mode-matching telescopes for O5
 - Simulation and tolerancing of auxiliary optics for injection, detection and control



Activities

LISA

- Part of the team at APC responsible for the development of an ultra-stable optical bench (BSIM) used to test LISA's main optical bench
- Prototyping the subsystems of the BSIM made at APC



Einstein Telescope

- Squeezing R&D : optical design of table-top experiment at APC

