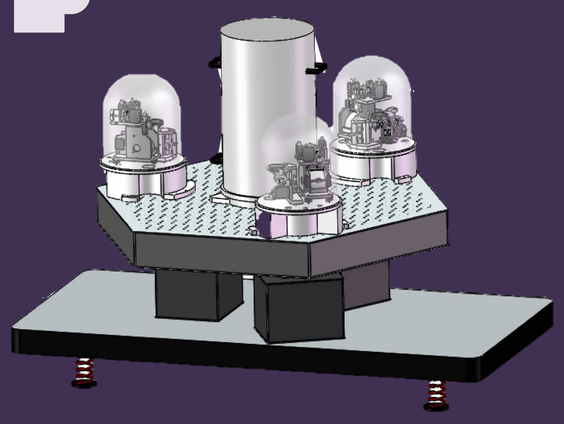
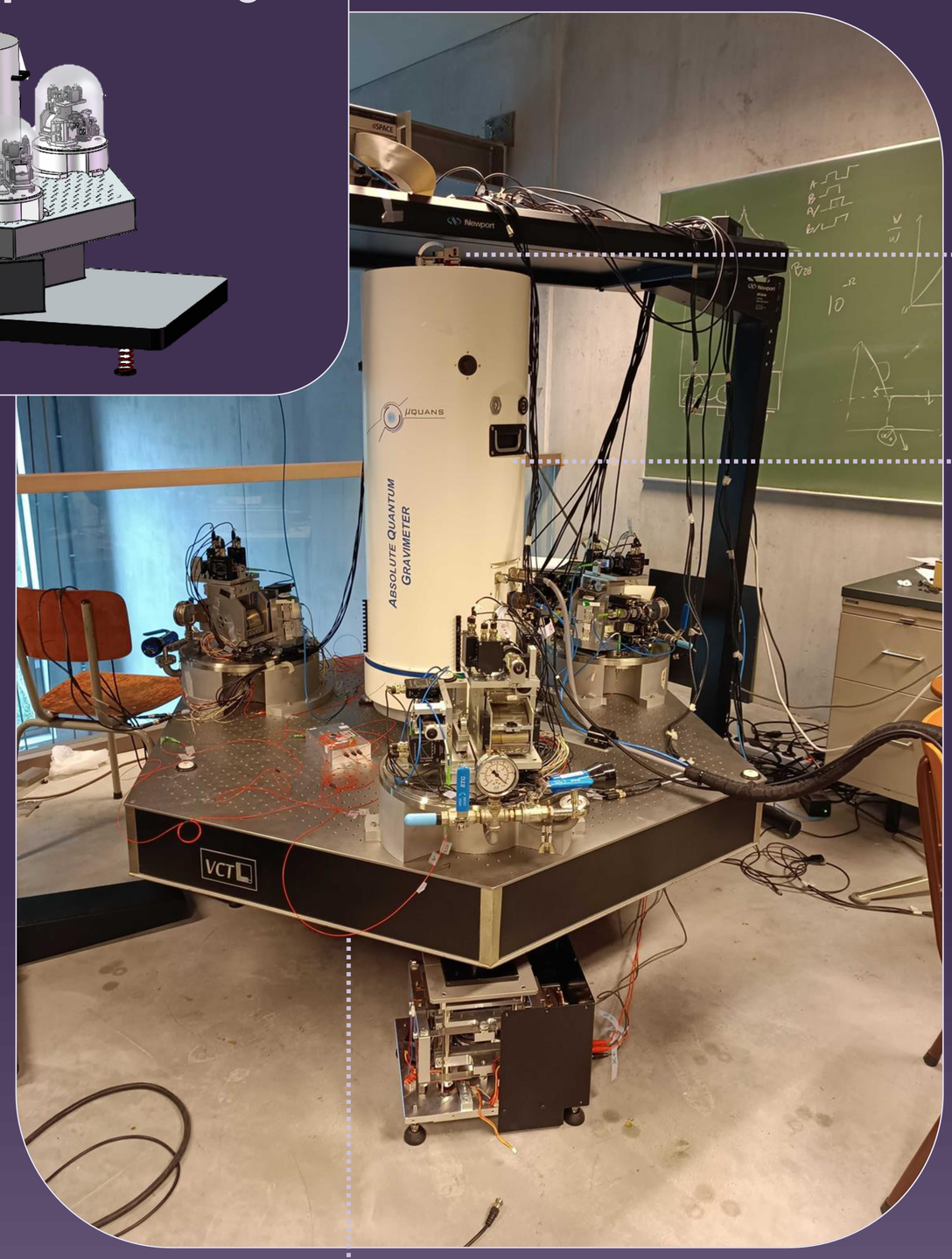
Einstein Telescope Euregio-Meuse-Rhin Site and Technology

E-TEST & SILENT

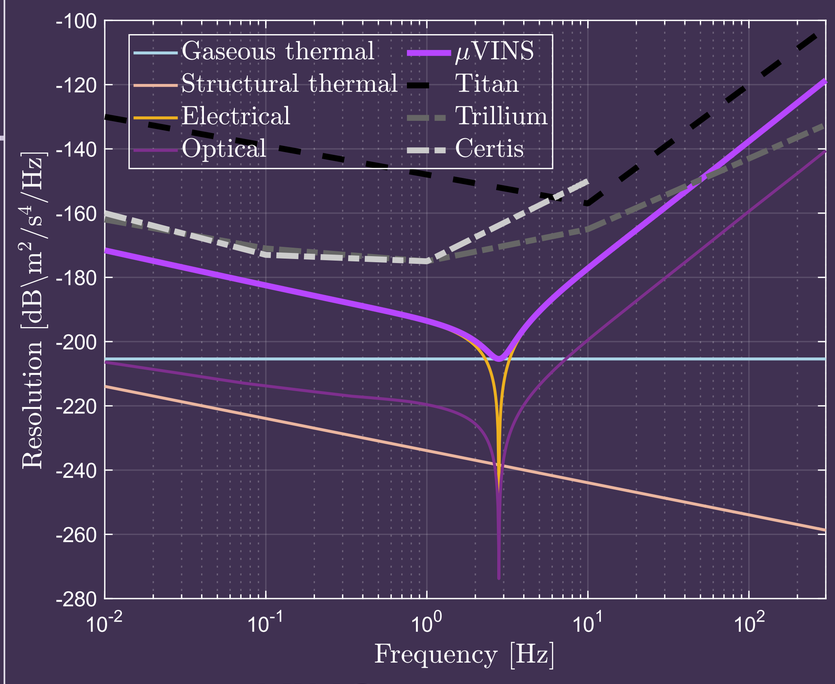
M. Teloi[1] , A. Amorosi[1,2], C. Collette[1,2]
Université libre de Bruxelles, Université de Liège

Conceptual design

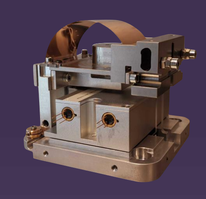




Horizontal & Vertical inertial sensor

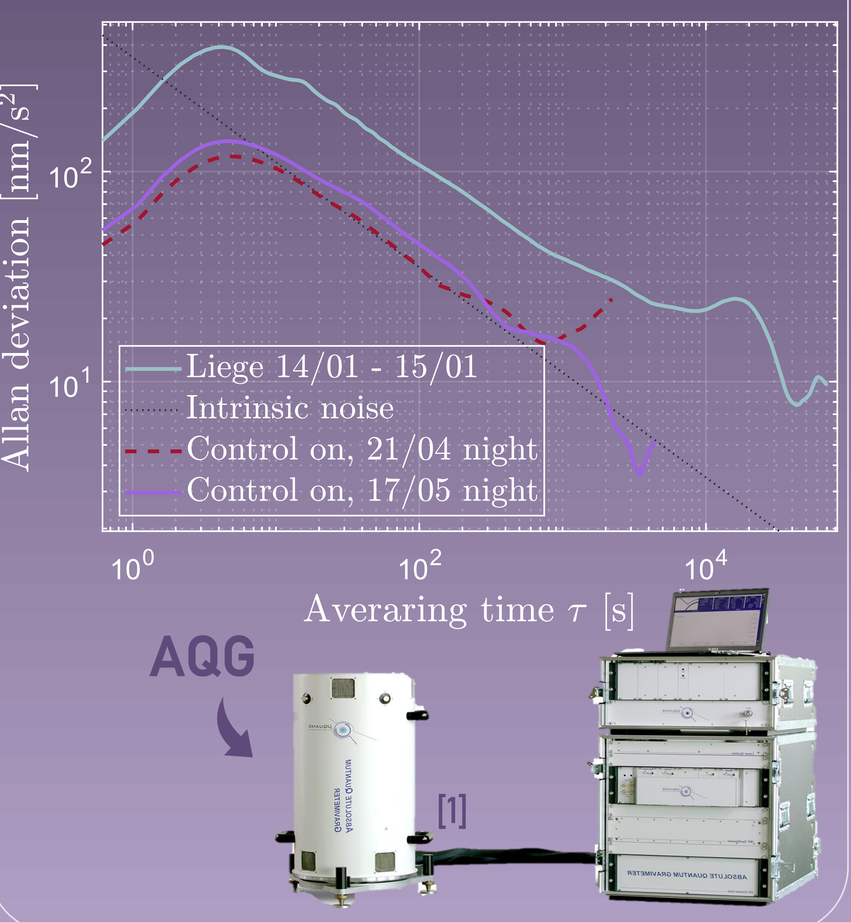


μVINS



[2]

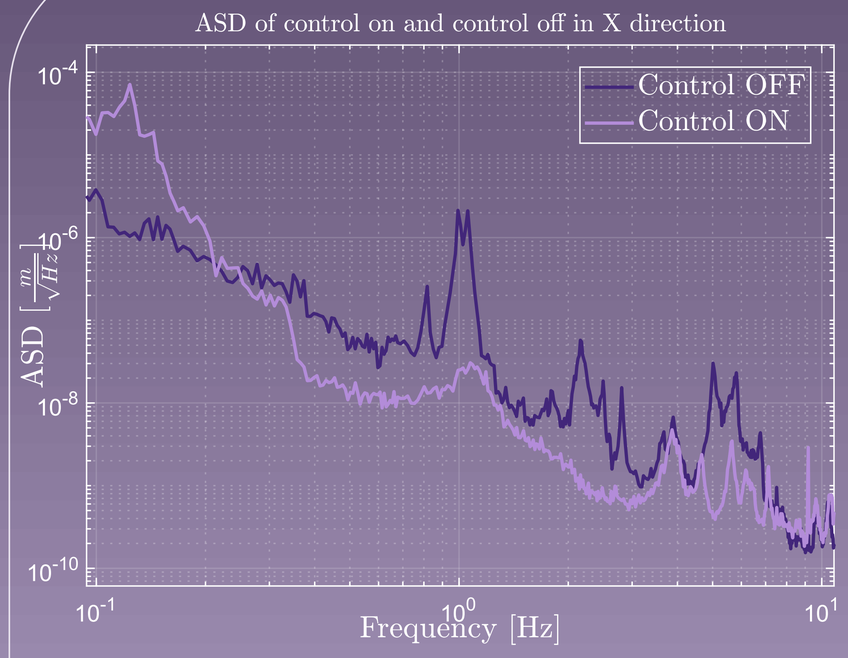
Absolute atomic quantum gravimeter

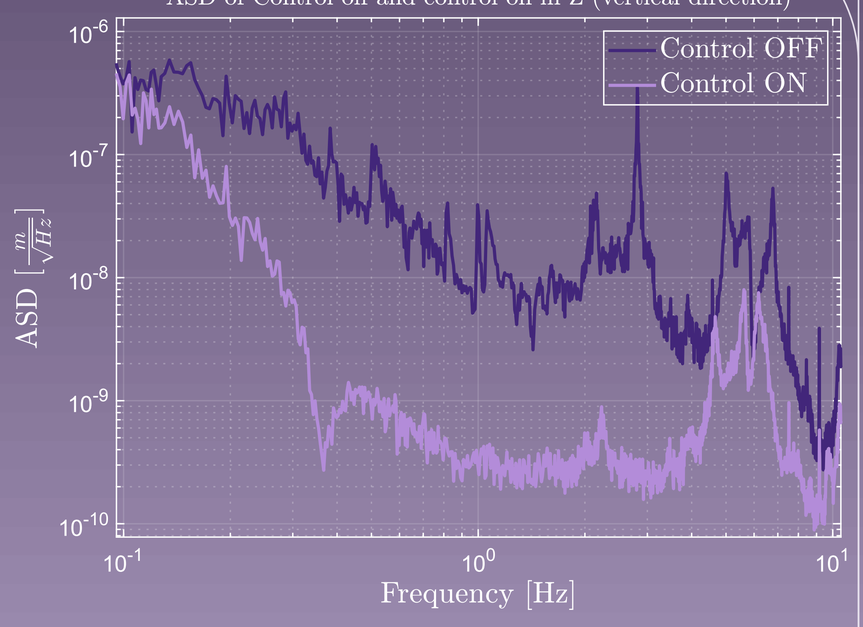


AQG

[1]

Actively controlled platform





References

[1] Vincent Ménoret *et al.* "Gravity measurements below 10-9 g with a transportable absolute quantum gravimeter". In: Scientific Reports 8 (Aug. 2018), p. 12300. doi: 10.1038/s41598- 018- 30608- 1. url: https://hal.sorbonne-universite.fr/hal-01880167

[2] Anthony Amorosi *et al.* "High resolution compact vertical inertial sensor for atomic quantum gravimeter hybridization". In: ISMA-USD Noise and Vibration Engineering Conference 2022.

Acknowledgements

This research is funded by the European Research Council Consolidator grant SILENT (grant agreement number 866259).