

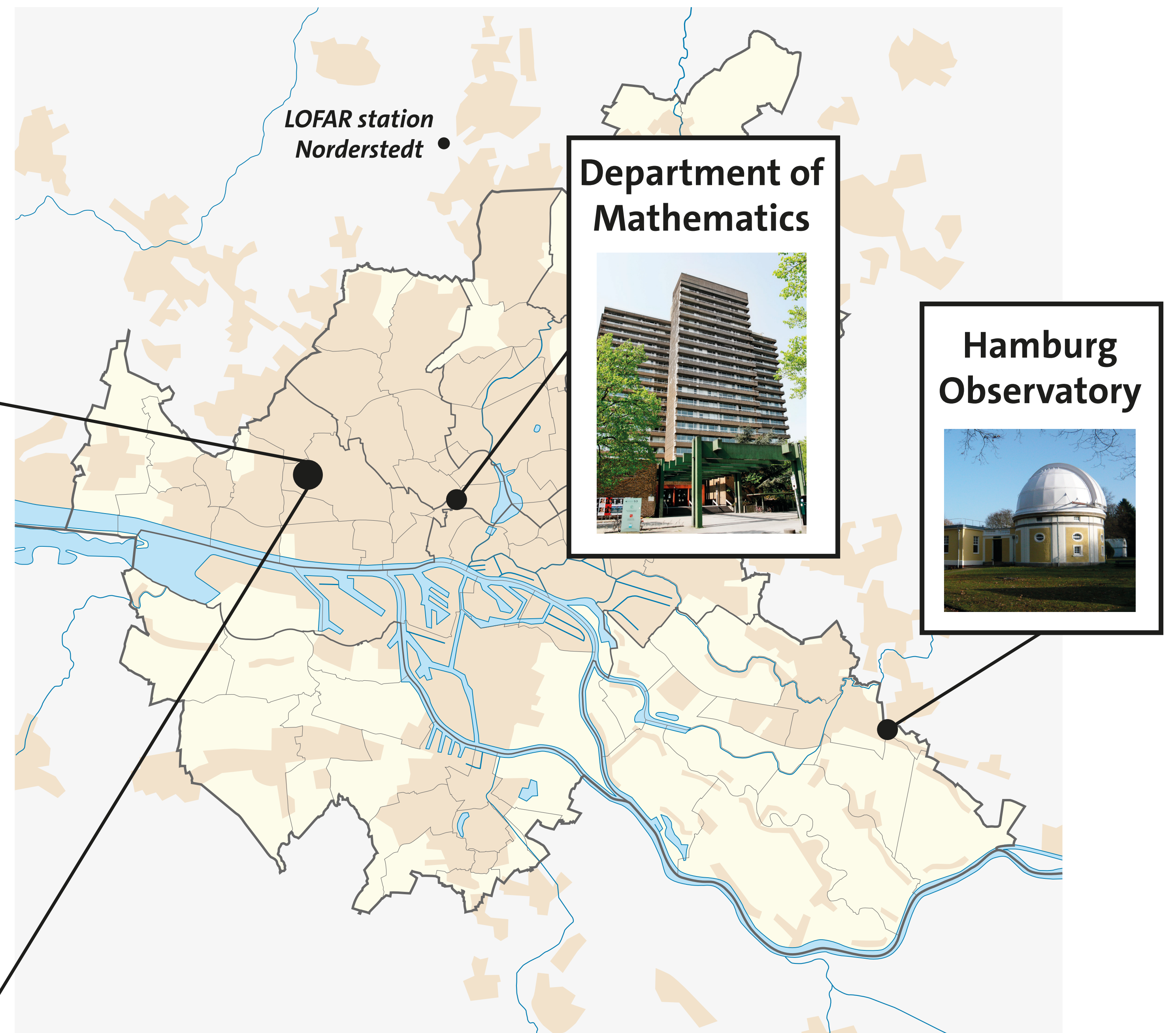
SUPPORT FROM UNIVERSITÄT HAMBURG, DESY, AND THE FEDERAL STATE OF HAMBURG

- New strategic appointments
- Investments into infrastructure in 2018
- Investments into new instrumentation
- Additional staff

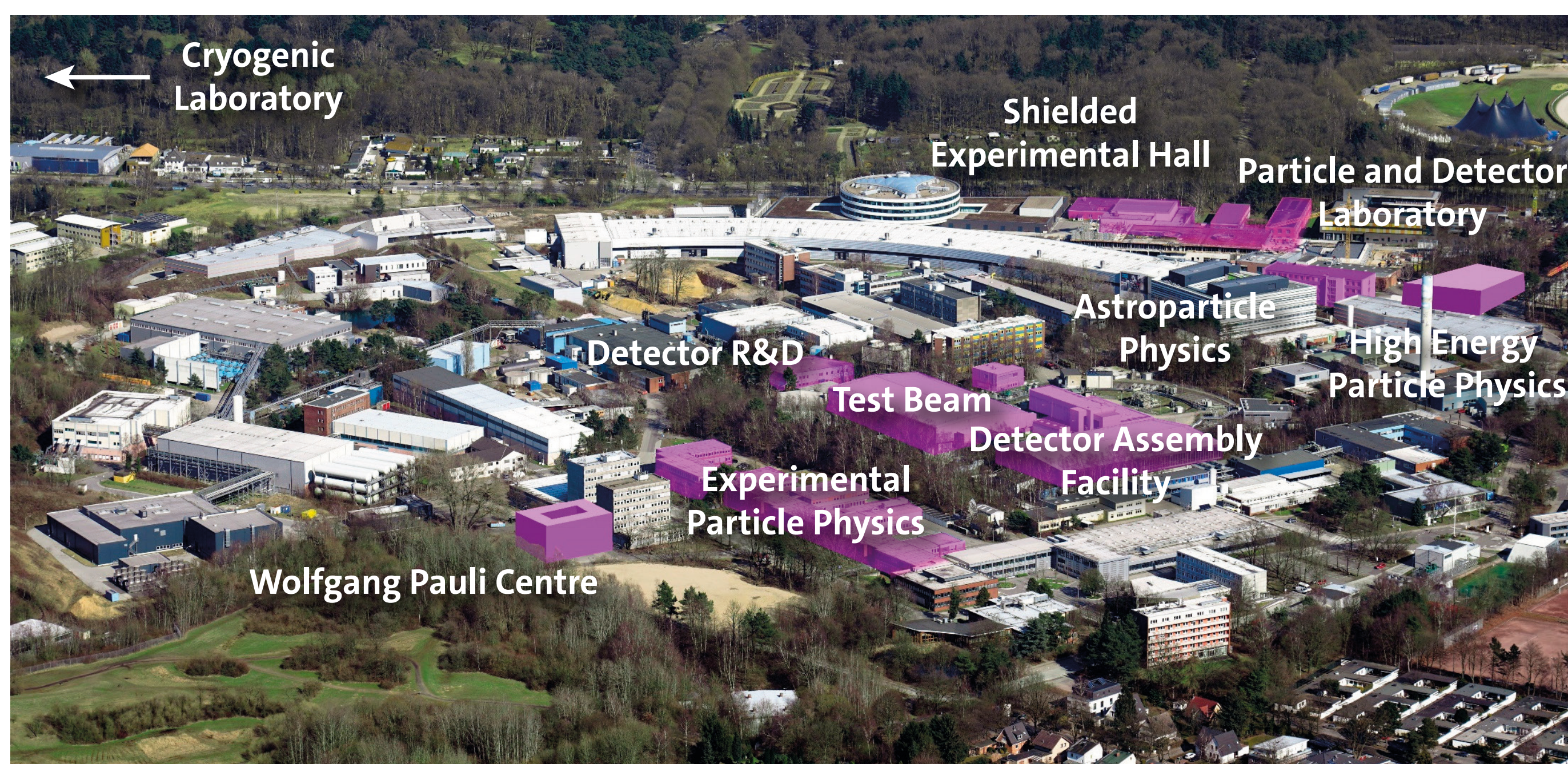


Total support for Quantum Universe research: 25.1 million €

QUANTUM UNIVERSE IN HAMBURG



INTERNATIONAL SCIENCE CAMPUS HAMBURG-BAHRENFELD



EXPERIMENTAL ACTIVITIES IN QUANTUM UNIVERSE

Ongoing and planned experiments/observations

Collider Physics

1. ATLAS and CMS at the LHC, upgrade
2. BELLE-II

Axion/WISP experiments (local in Hamburg)

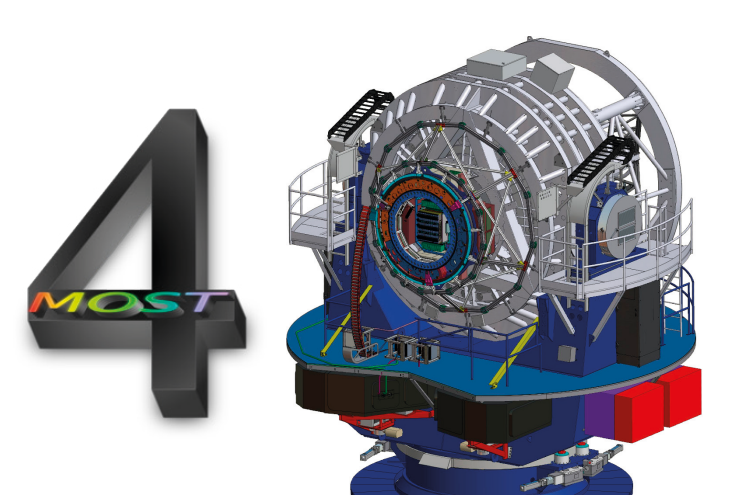
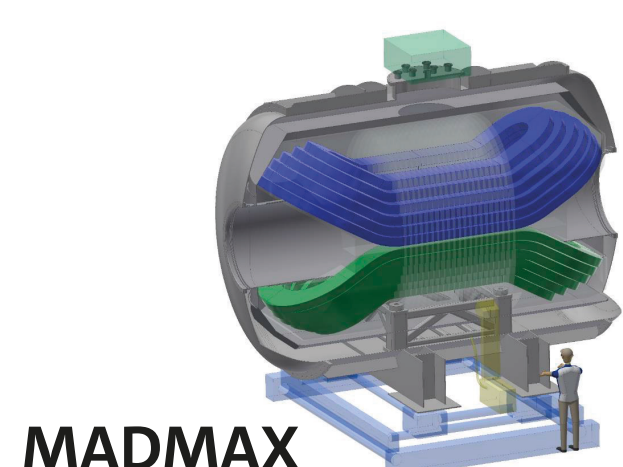
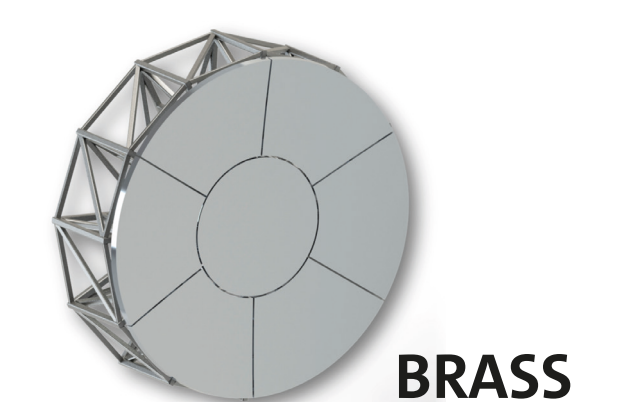
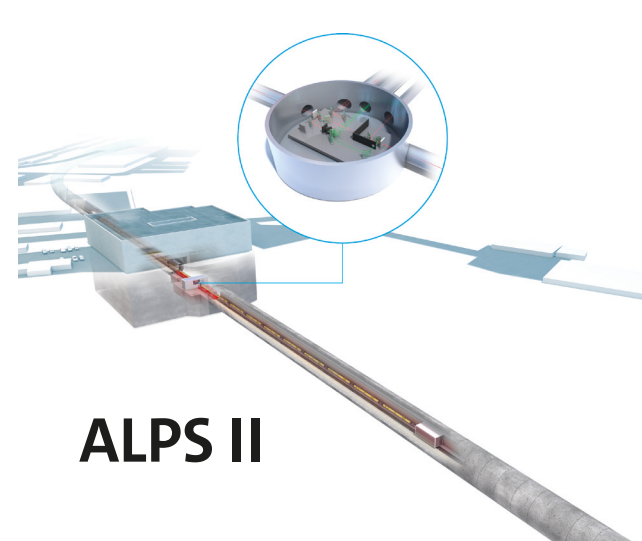
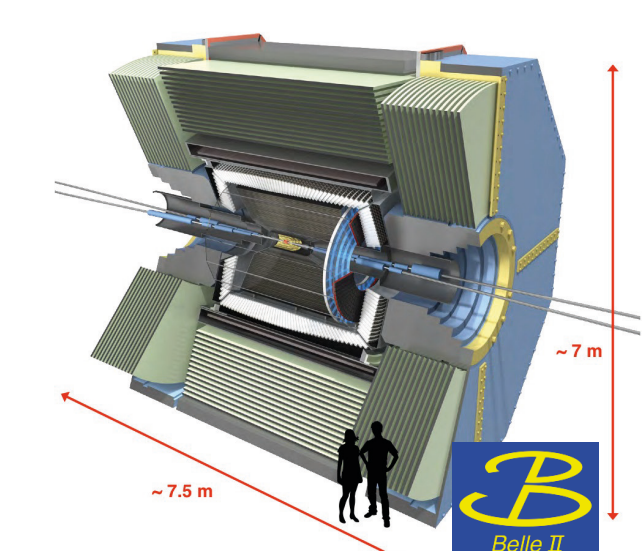
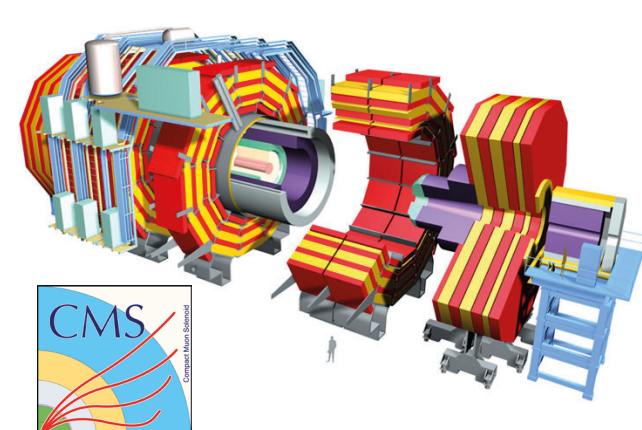
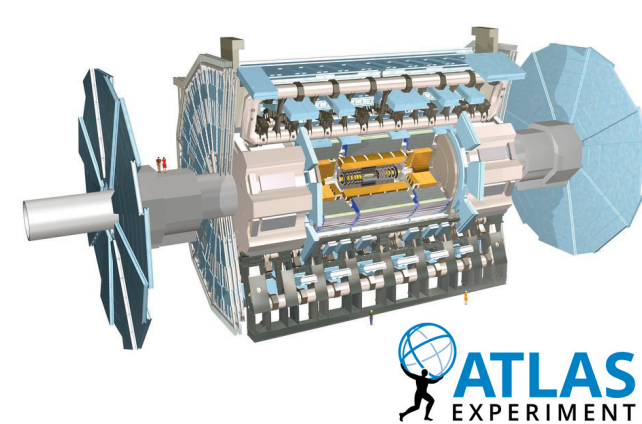
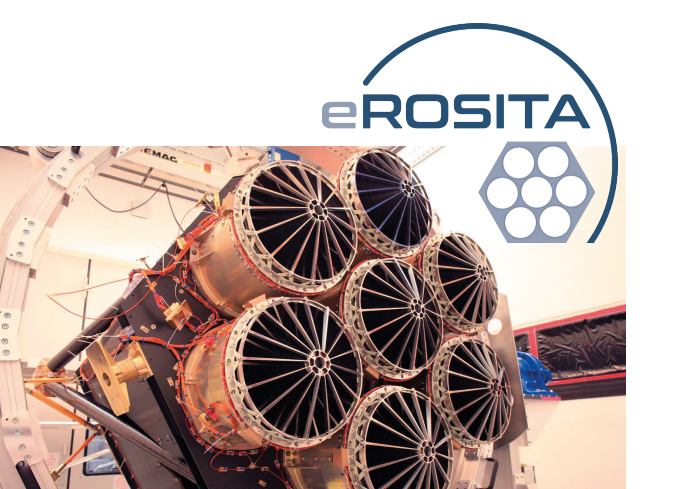
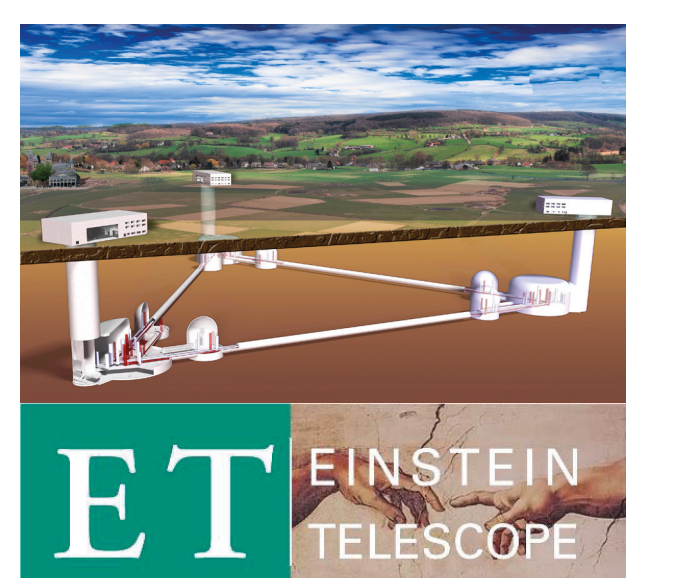
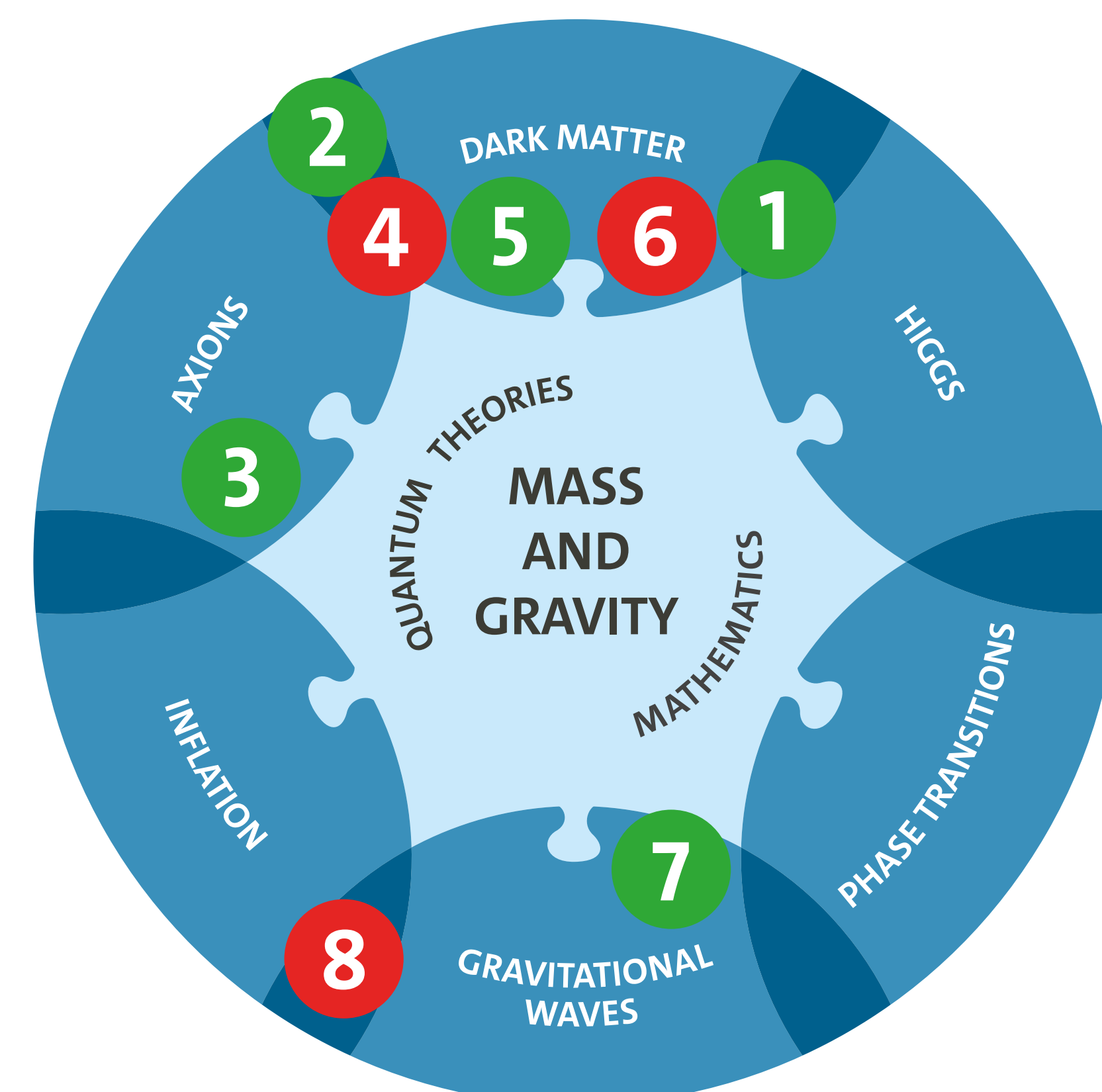
3. ALPS II
4. BRASS, MADMAX, babyIAXO

Astrophysics

5. LOFAR, Taiga
6. CTA, 4MOST, eRosita

Gravitational Waves

7. Advanced LIGO (aLIGO)
8. R&D projects for the Einstein Telescope



INTERNATIONAL COLLABORATIONS



TIMELINES OF EXPERIMENTS

