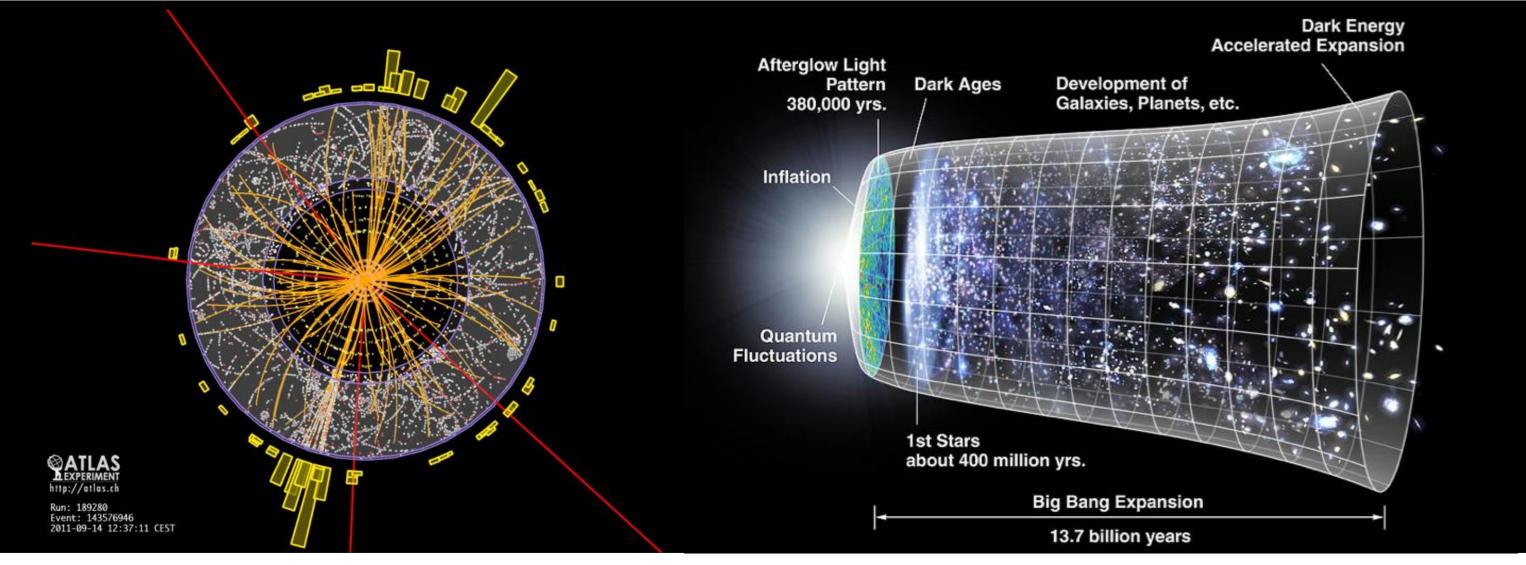


Monday 3 June 2024 Jan Visser

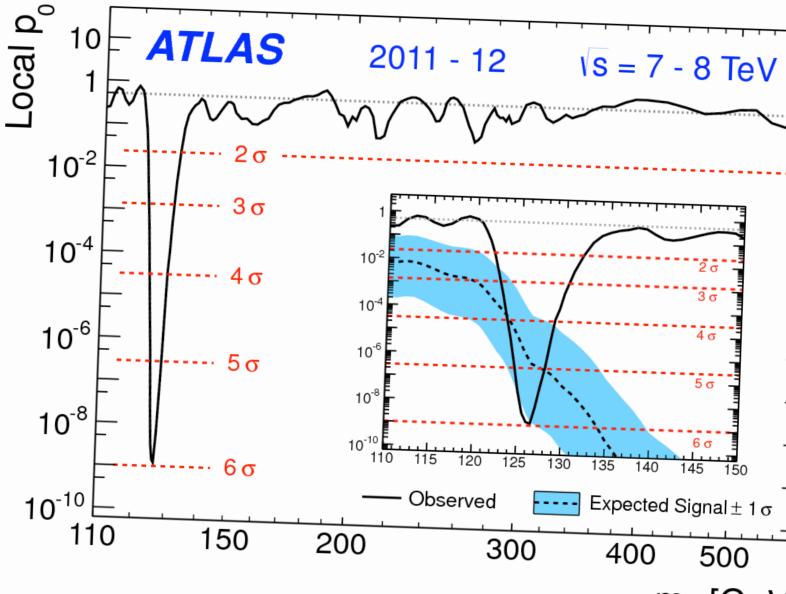


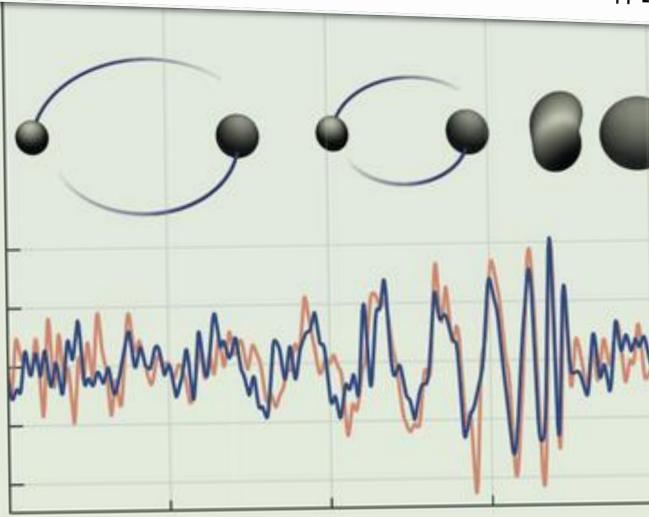
NATIONAL INSTITUTE FOR SUBATOMIC PHYSICS Local p_o We study the interaction and structure of all elementary particles and fields

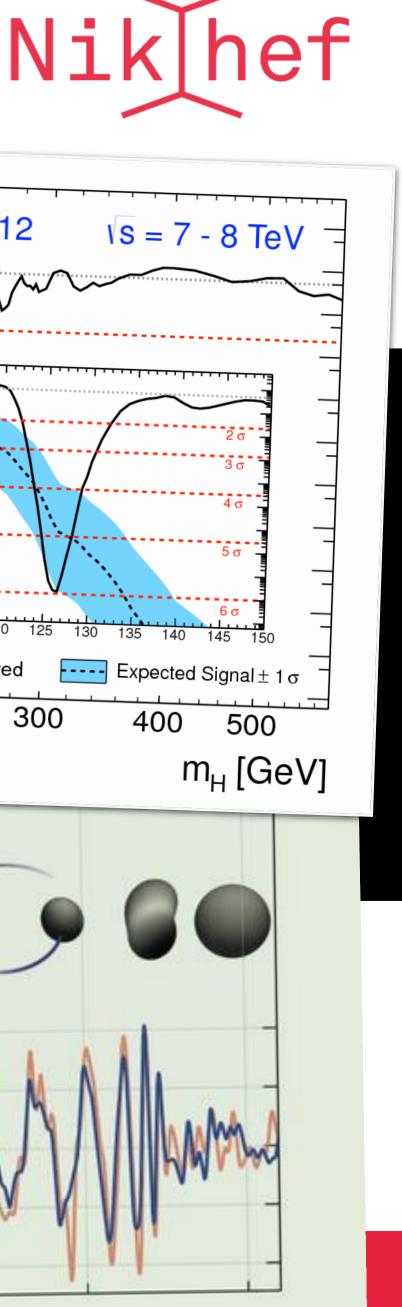


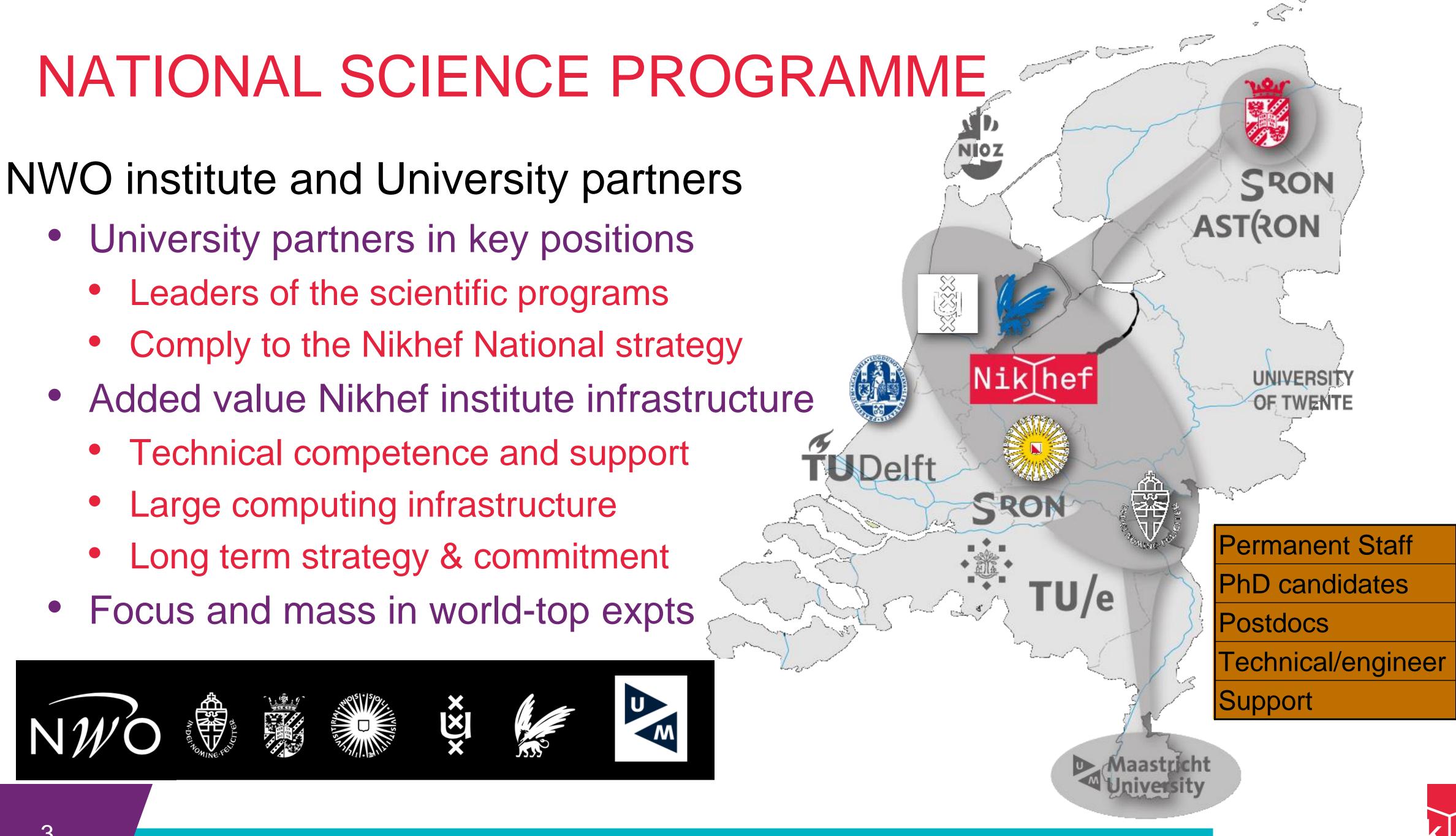
- Collider physics (i.e. CERN)
- Astroparticle physics
- Knowledge and technology transfer



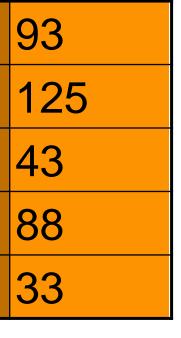




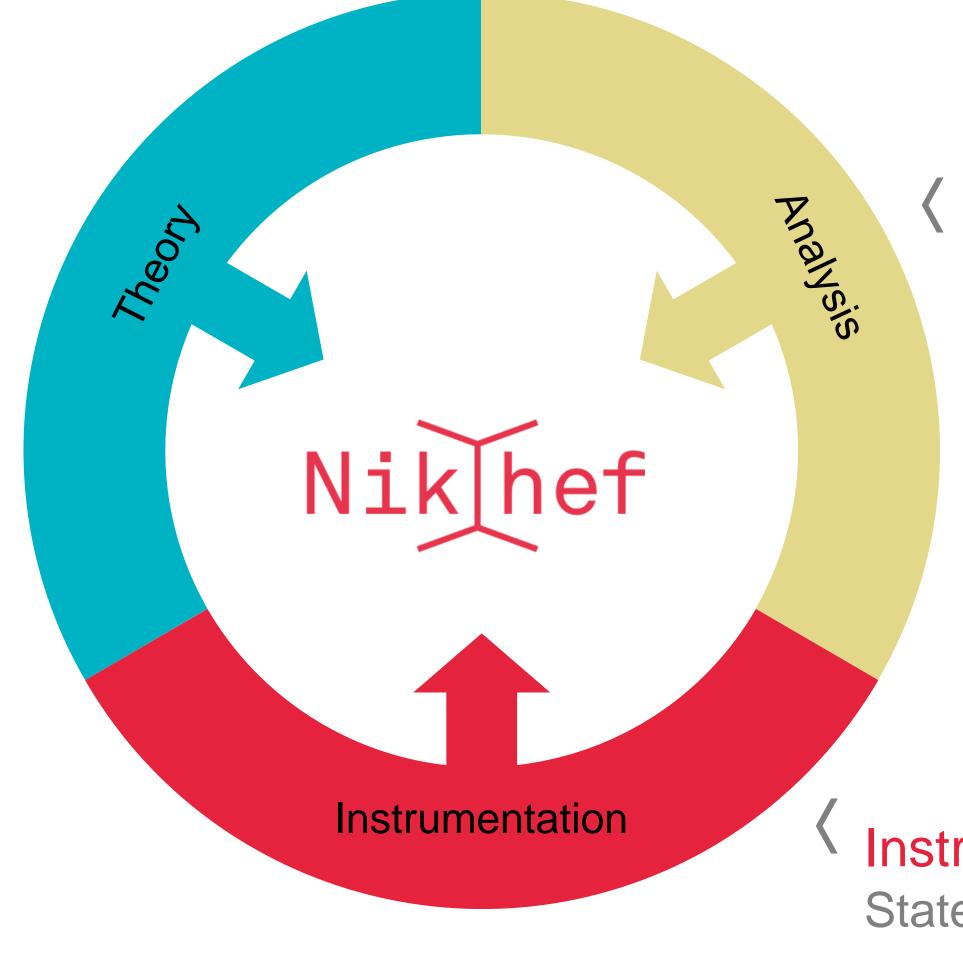








THE NIKHEF ECO SYSTEM



Theory phenomenology Accurate predictions



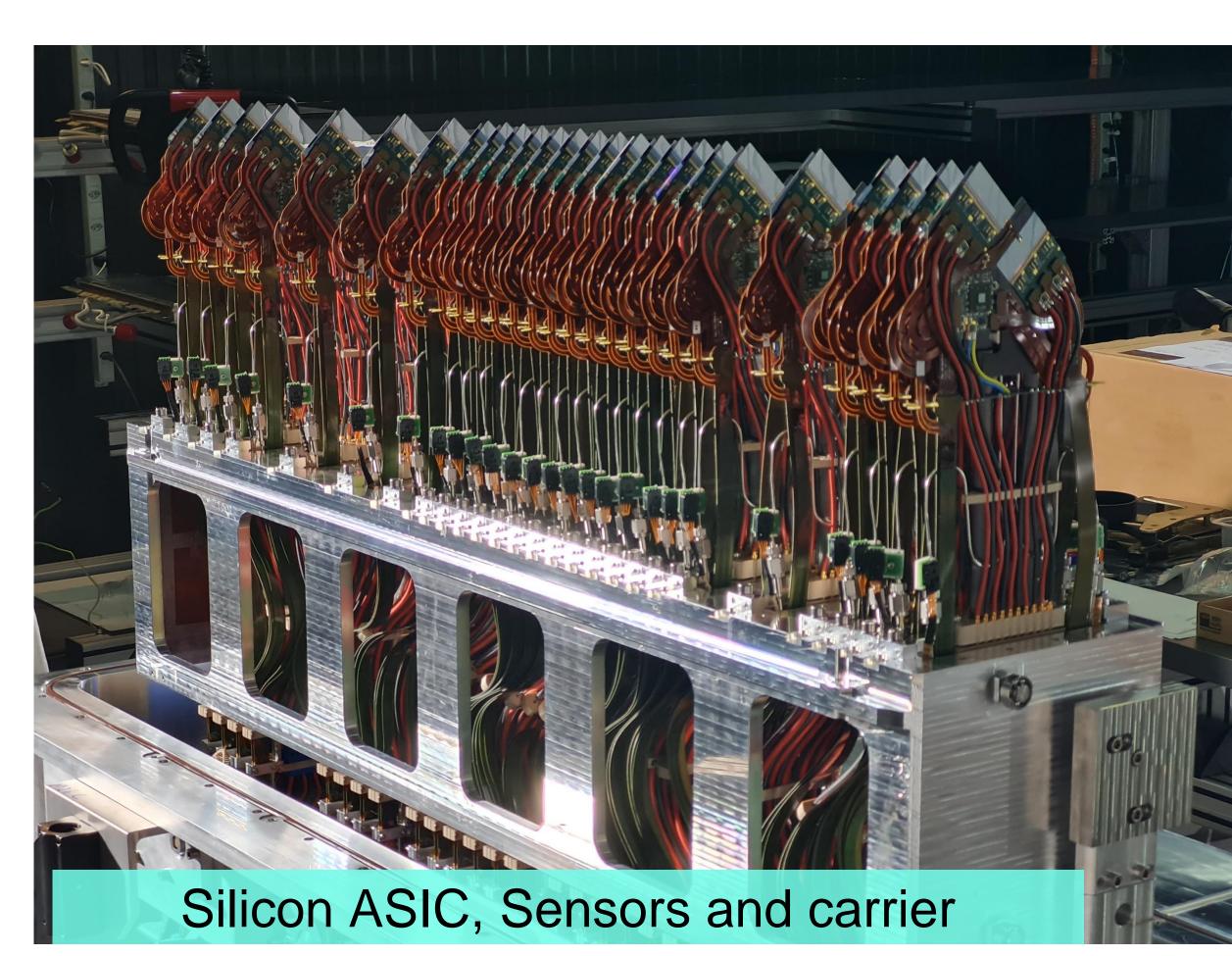
Data taking & Analysis Assemble new knowledge

Instrumentation and R&D State of the art detectors

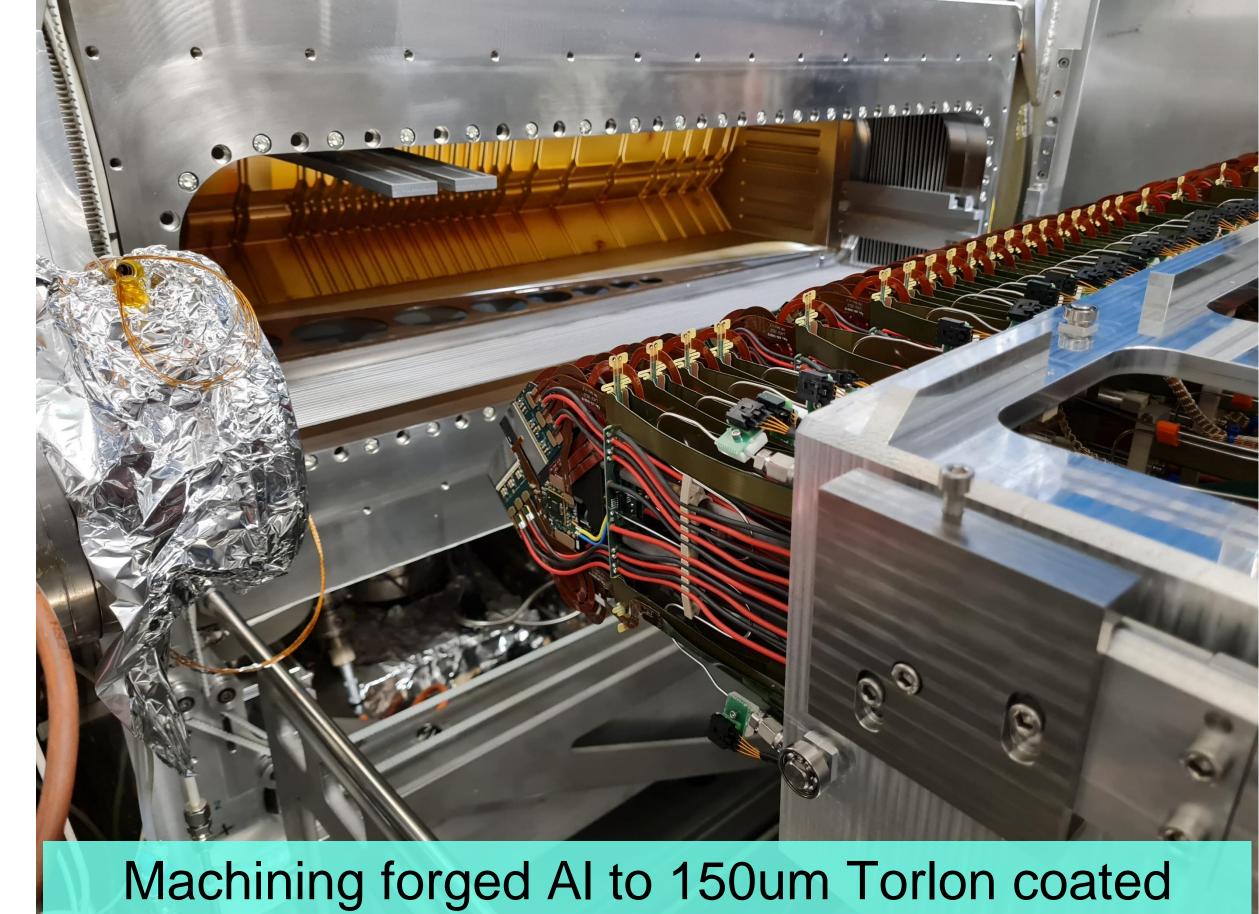




VERTEX DETECTOR LCHB

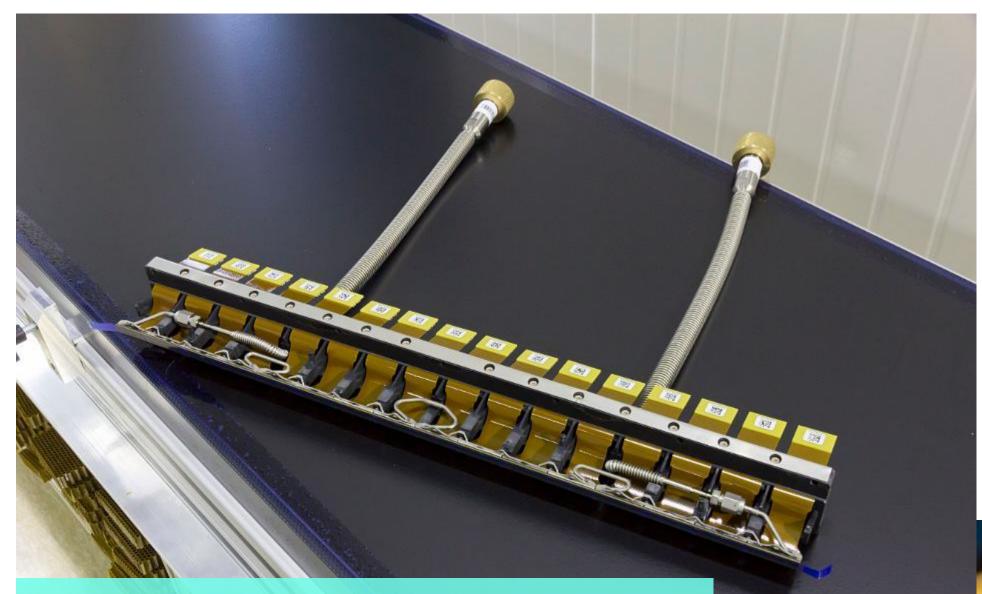






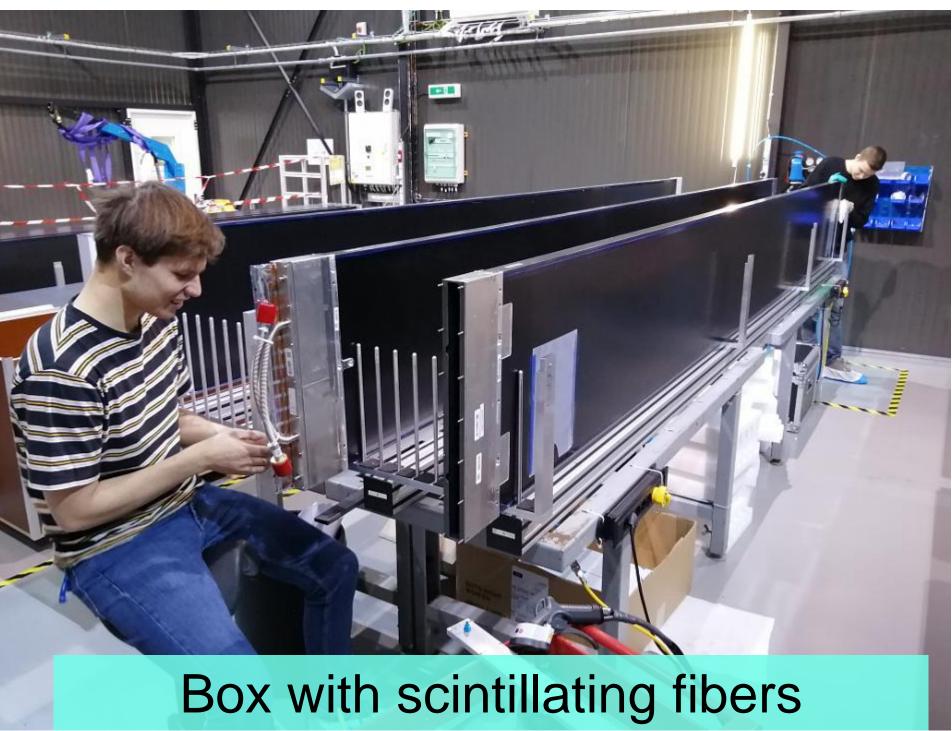


LCHB SCINTILLATING FIBER TRACKER

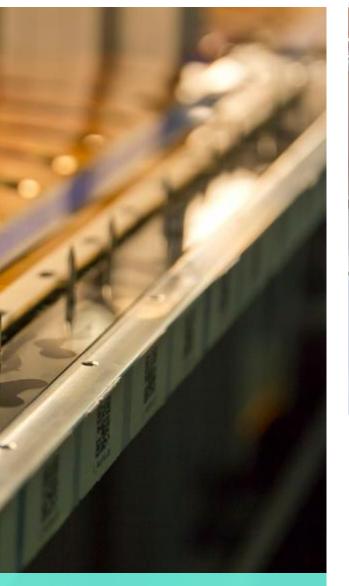


3D printed to part

Mounting of electronics

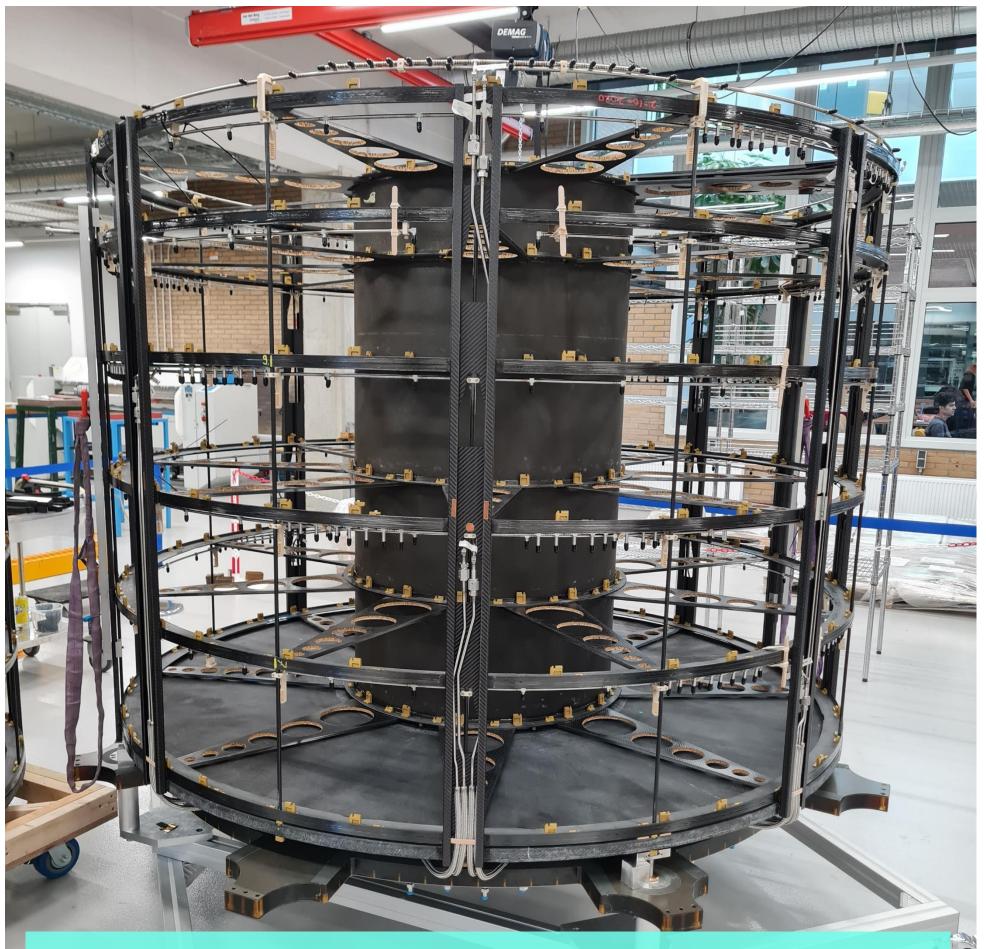








ATLAS INNER TRACKER



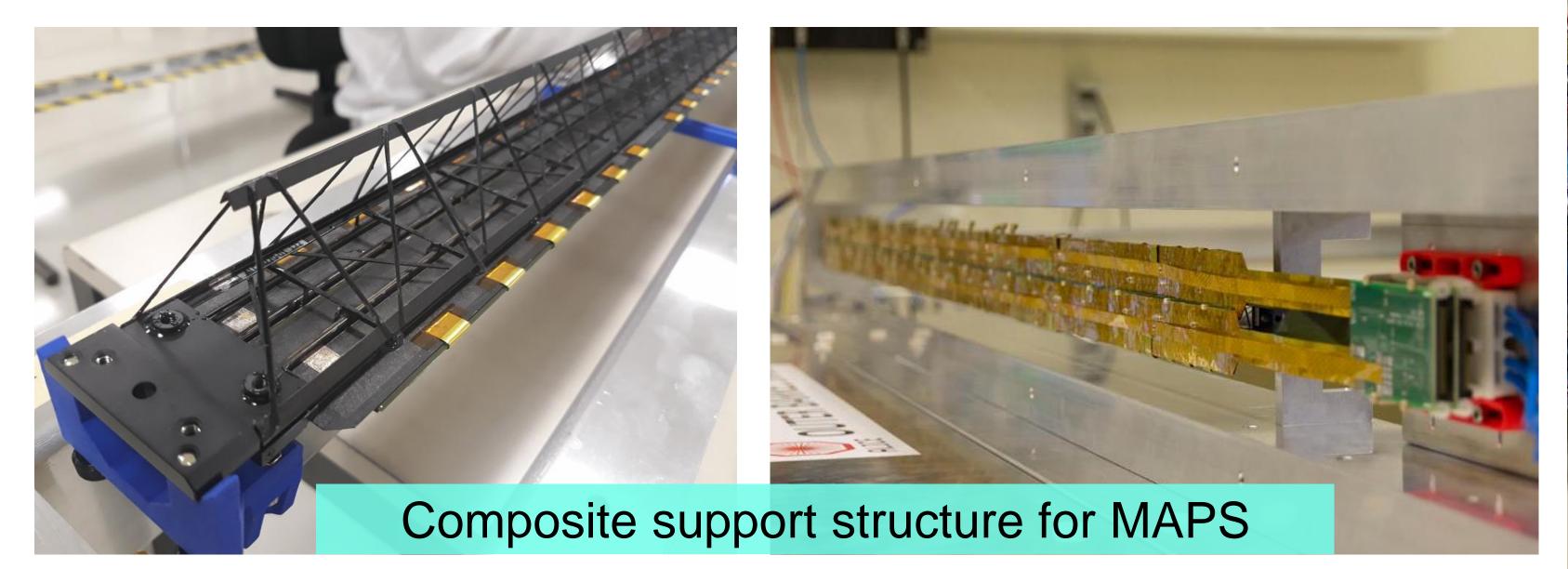
Composite support structure

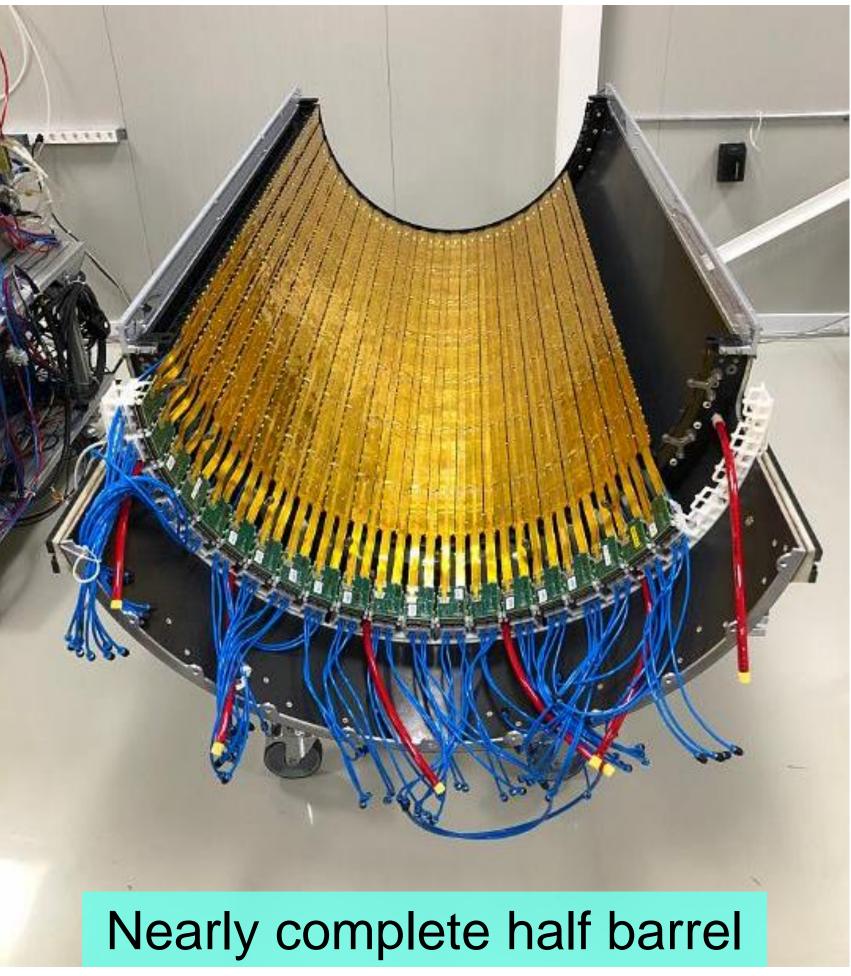
Tooling to position silicon detector petals





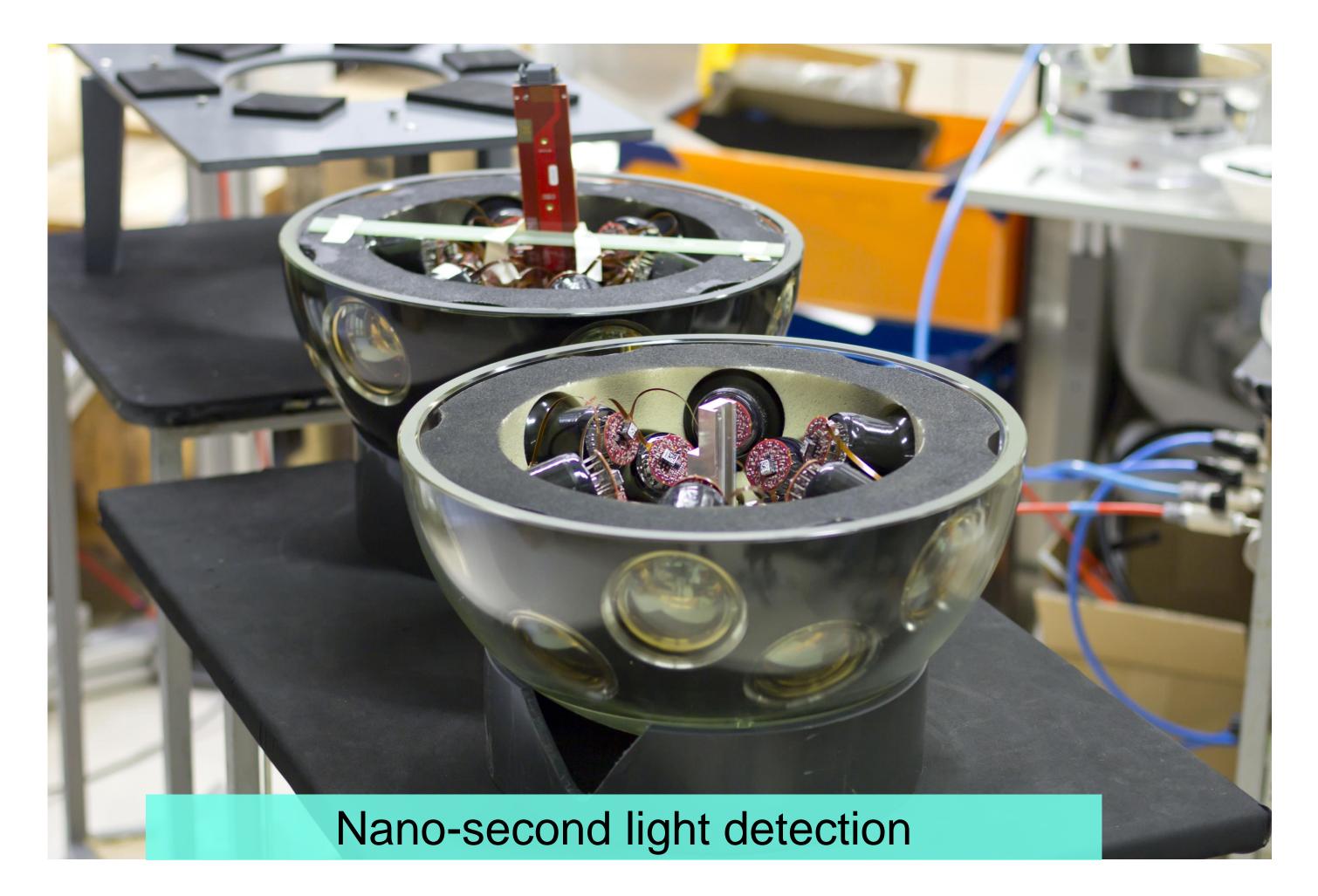
ALICE BARREL







KM3NET DIGITAL OPTICAL MODULES









XENON CRYOSTAT



Ultrapure liquid Xenon with light sensors



Structure to surround cryostat with water







KEY TECHNOLOGIES EINSTEIN TELESCOPE



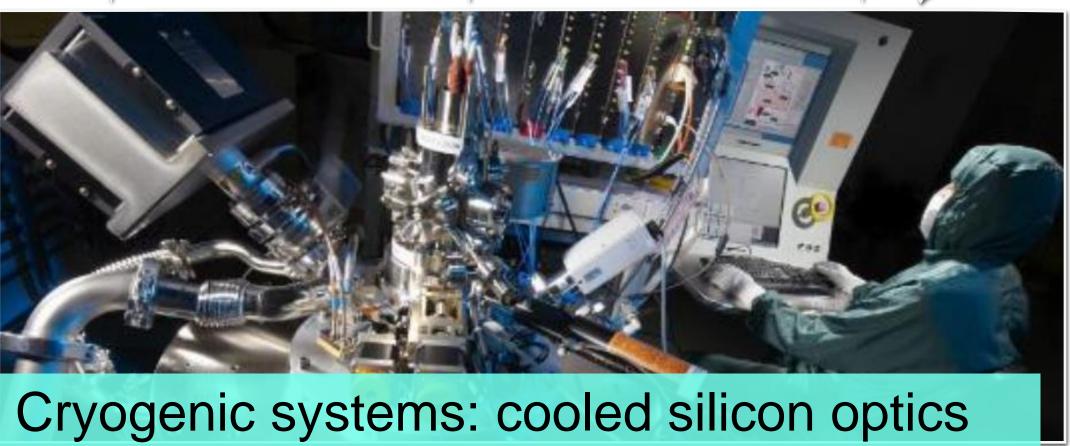
Measuring vibrations: nano-technology



Vacuum technology: biggest systems worldwide



Optics, coatings, semiconductor technology





Enjoy your time at the Ruwenberg to learn and make new friends!

