

ATLAS and the Large Hadron Collider at CERN

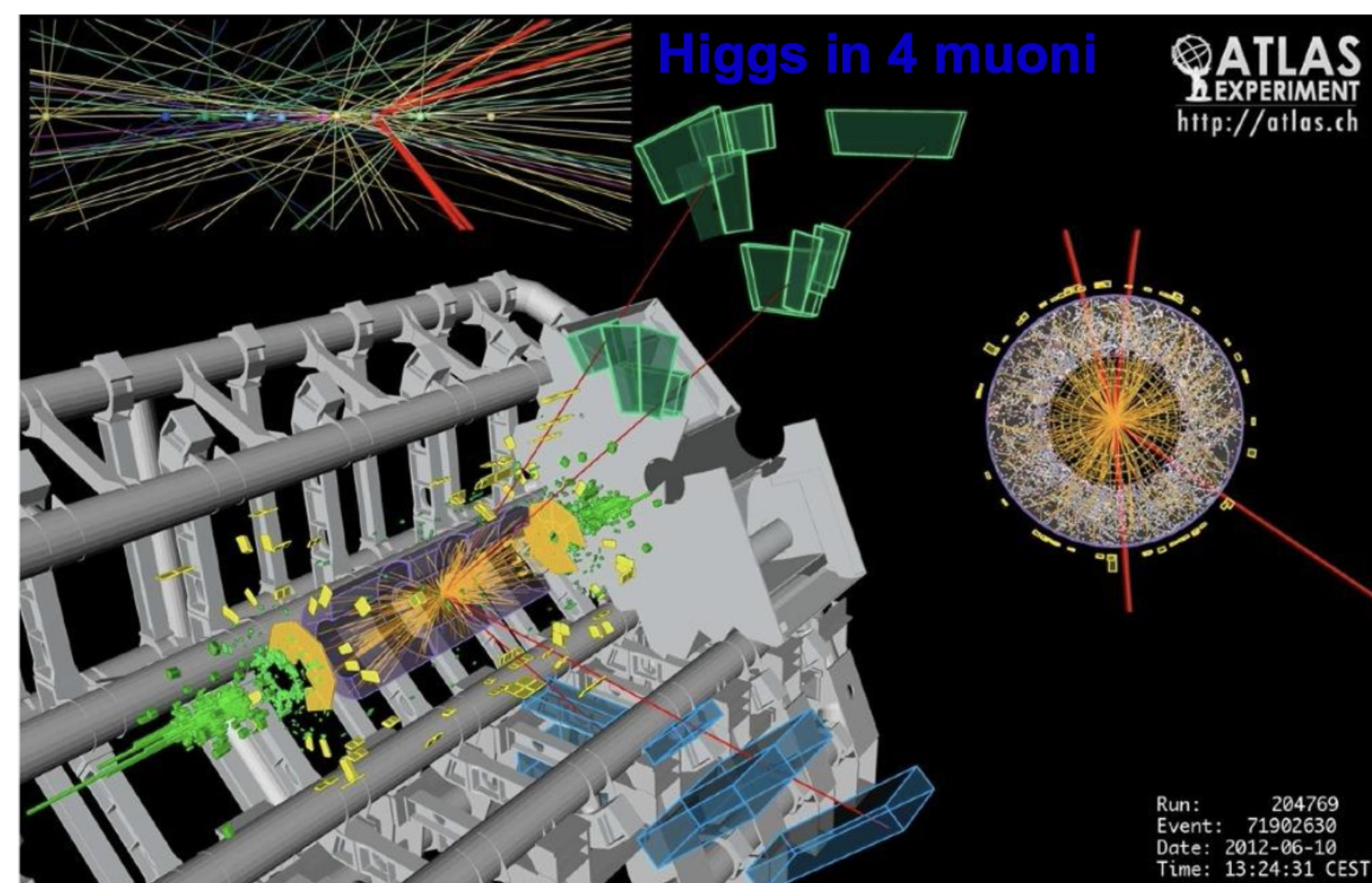
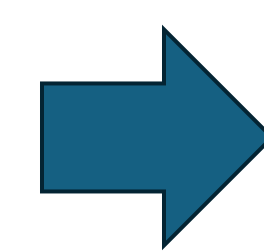
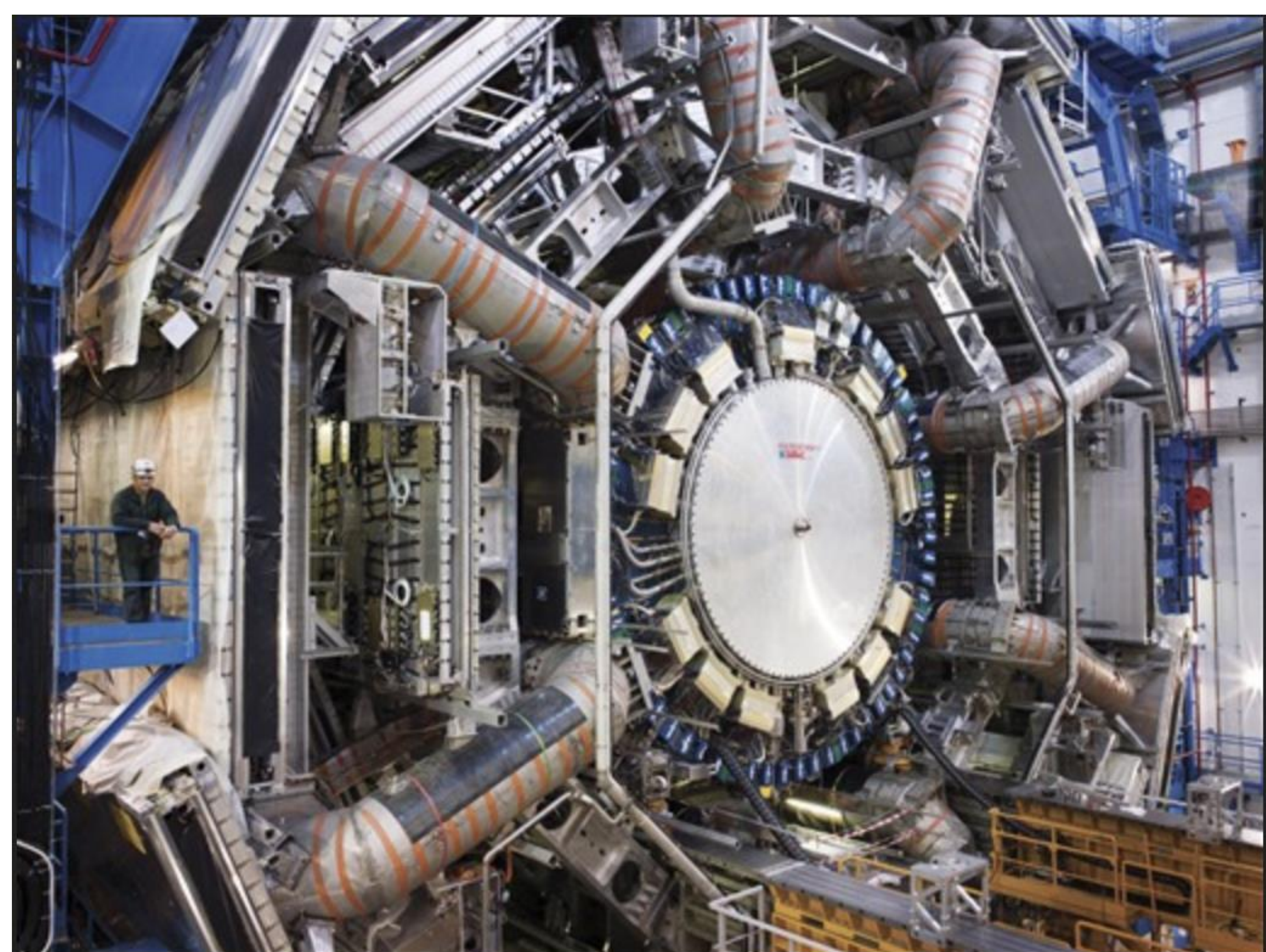


ATLAS is one of the experiments at the **CERN Large Hadron Collider (LHC)**.

It is one of the largest, most complex and technologically advanced particle detectors ever built.

It is designed to analyse with high precision the LHC **proton-proton collisions** and answer to fundamental questions about the history of the universe, the building blocks of matter, and the fundamental forces of Physics.

The ATLAS Detector



ATLAS past, present and future

After the **Higgs Boson discovery** in 2012, the experiment has produced a huge set of additional Physics results. It is taking data now and its Physics program is extending to the next decades.

The **ATLAS Rome Group** is part of the international collaboration since the detector design and construction, then for the data analysis and now the detector **upgrade for future LHC runs**.

