

**ATLAS**

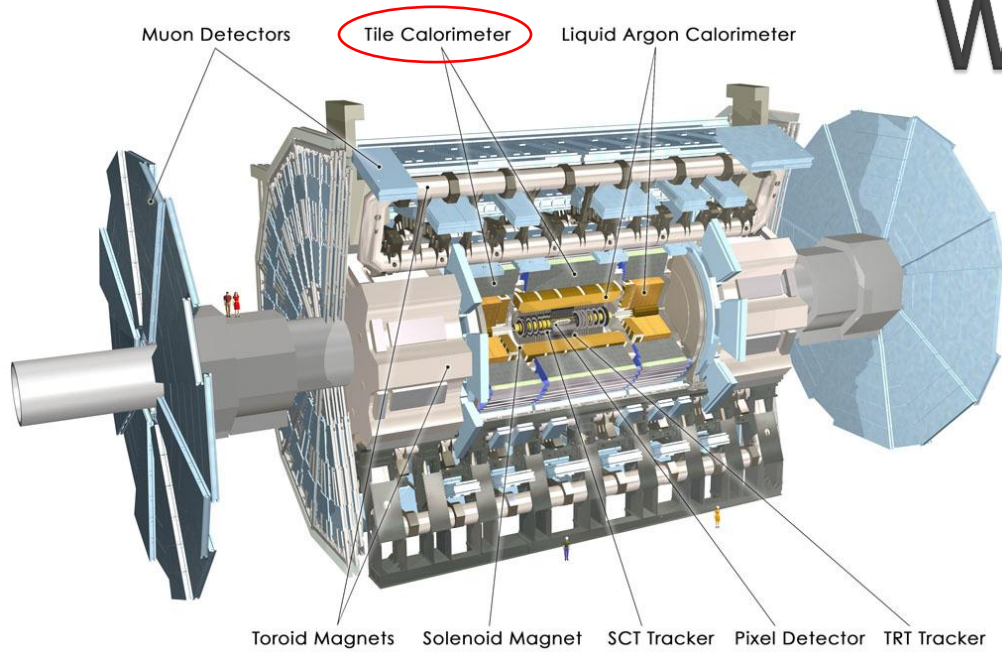


# CERN 2012 Tile Calorimeter

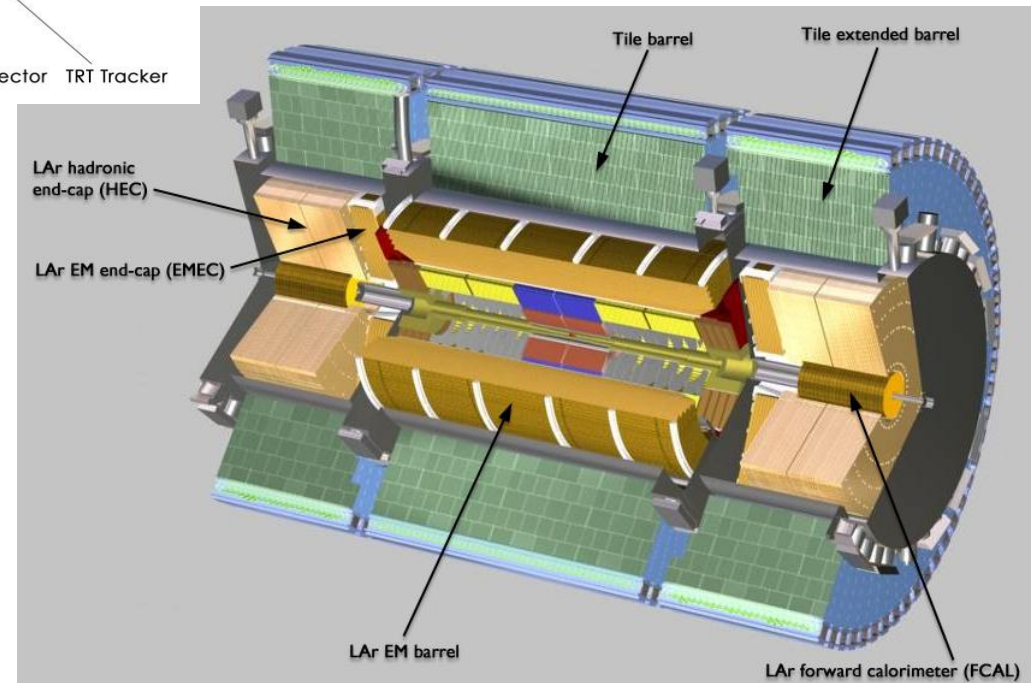
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The ATLAS Experiment

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# Where is TileCal?



Key detector for measuring  
hadrons, jets, missing ET



# My Project

- ▶ Tile Calorimeter of the ATLAS detector
  - Negative energy, generally abnormal data in some recorded events
- ▶ My job:
  - Test new variables for standard tests and new tests in cell energy, time reconstruction

# Path to the End Result

- ▶ Challenges:
  - Learn to use ROOT and C++ effectively
  - Develop variables that have never been looked at before
- ▶ Big Picture
  - Of my project: Make data analysis easier and safer, validate criteria that will prevent “bad quality” signal leaks into physics analyses
  - Of ATLAS: Confirm the Standard Model, new physics

# Fun!



Geneva from St. Pierre Cathedral



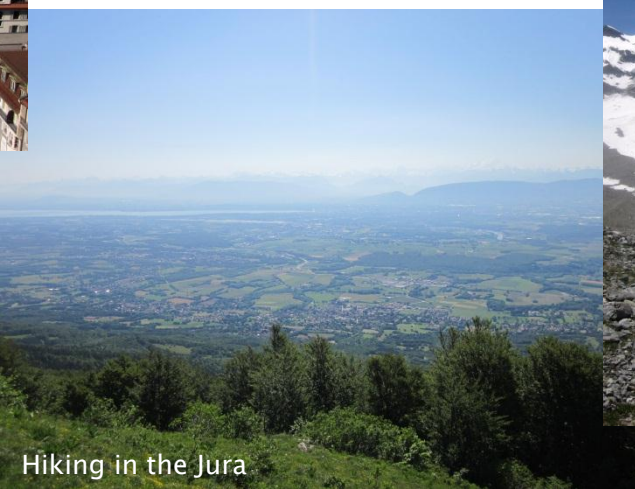
Exploring St. Genis



Seeing the Matterhorn



Glaciers of the Alps



Hiking in the Jura