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HEP detectors overview and example

Monday 9 July 2018 10:30 (1h 30m)

In order to detect and properly identify particles in High Energy Physics experiments you need to combine results from a combination sub-detectors. There is usually a large number of particles to handle at the same time and many events to study.

I will talk about different types of sub-detectors, how they are combined, different architectures and how this affects the construction of the Data Acquisition Systems. I will start with the basics and then discuss how this is implemented in an actual detector system –the ATLAS detector at CERN.

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