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ROOT as a Service - Jupyter Notebook

Monday, August 29, 2016 4:00 PM (40 minutes)

The Jupyter Notebook is a narrative that combines data visualisation, text, code and multimedia material, all in the same web application. It can be used for instance for data analysis, simulations, statistical inference, machine learning or teaching.

Moreover Notebooks encourage suitably documented scientific code, a desirable feature when reproducibility and preservation of analyses is sought after.

This lecture introduces the basic concepts behind Jupyter Notebooks and reviews some of its possible usages in science: examples of sophisticated statistical data analysis, multivariate techniques and data visualisation will be discussed.

Driven by a pragmatic attitude, the theoretical concepts are complemented by concrete applications, involving cutting edge production tools coming also from the Python analysis ecosystem and High Energy Physics community.

Presenter: Dr MONETA, Lorenzo (CERN)

Session Classification: Plenary Talks