

Jupyter notebooks on steroids

Friday, March 22, 2019 10:15 AM (45 minutes)

Jupyter notebooks have arrived to stay as a means to document the scientific analysis protocol, as well as to provide executable recipes shared seamlessly among the community. This has triggered the rise of a plethora of complementary tools and services associated to them. This talk will cover different possibilities to use Jupyter notebooks and JupyterLab interface. We will start with the description of their basic functionalities, as well as functionality extensions not widely known by the community. We will describe how to take advantage of their cross-language capabilities to enhance collaborative work, and also use them as complementary assets in the paper publication process to provide reproducibility of the results. Other aspects on how to deal with modularity and scalability of long complex notebooks will be covered, and we will see several platforms for rendering and execution others than the browser and the local desktop. We will finish on how they are actually being used together with Docker and Binder as part of the versioned executable documentation of a project like Gammapy.

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Session Classification: Friday