
Hands-on session, Telescopes

Ernst-Jan Buis

Topical lectures, December 2025

Running Jupyter notebooks

Connect to callysto to get access the Nikhef's JupyterHub.

To do so you need to get connect through EduVPN

Accessing the service

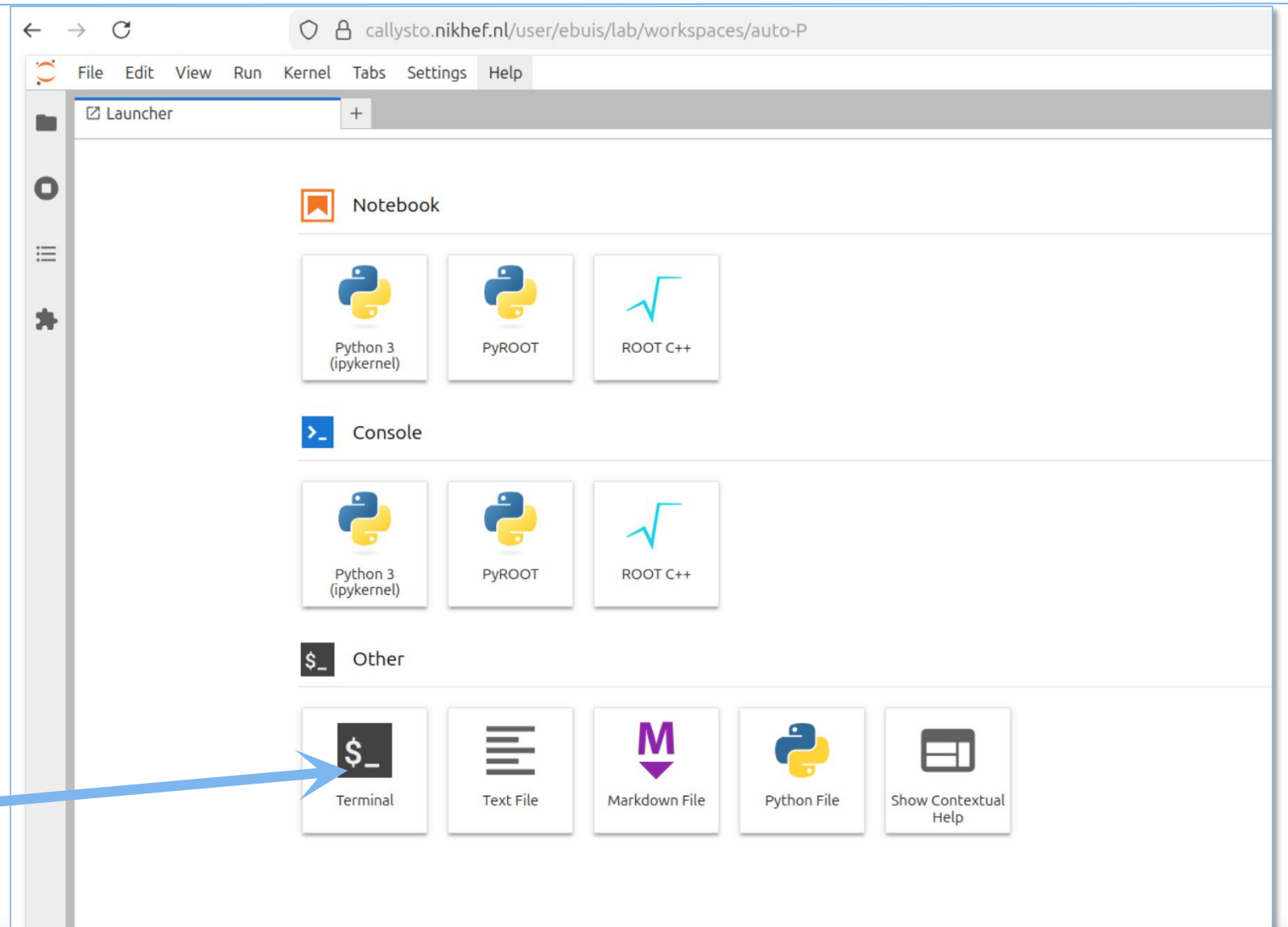
Nikhef's JupyterHub service can be found at <https://callysto.nikhef.nl>. Note this is running an Ubuntu OS so the command line interface will look different.

It is available exclusively for Nikhef users. You have to be on the Nikhef network or use [eduVPN](#) to access the service.

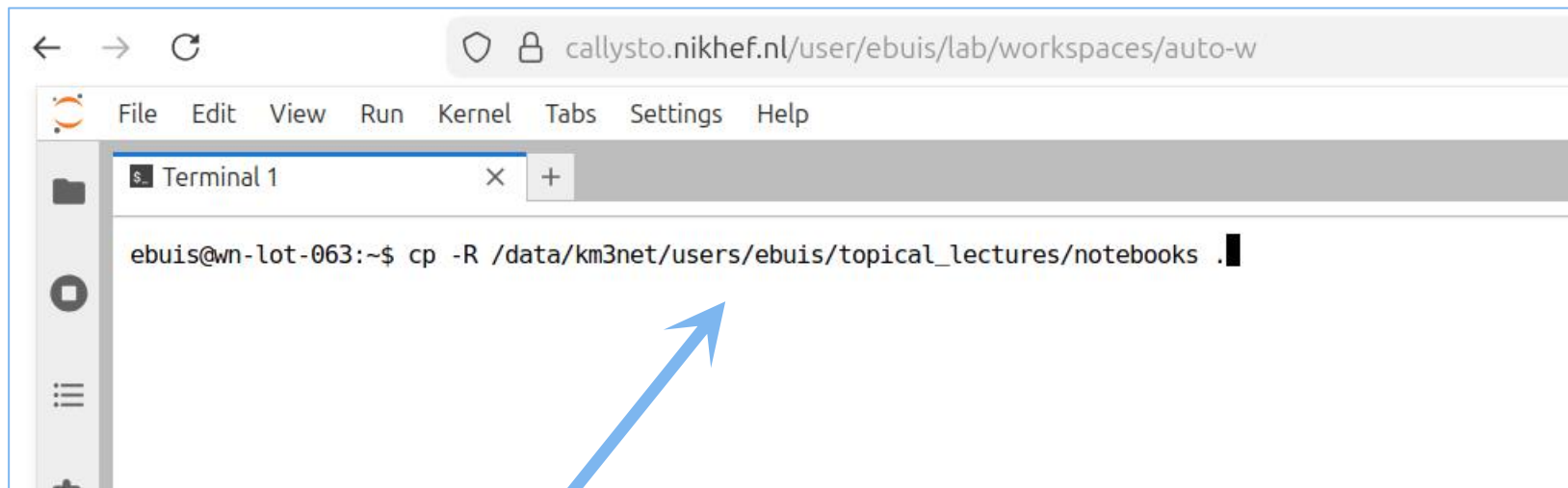
Navigate to <https://callysto.nikhef.nl> and log on via [Nikhef SSO](#).

Running Jupyter notebooks

Open a terminal



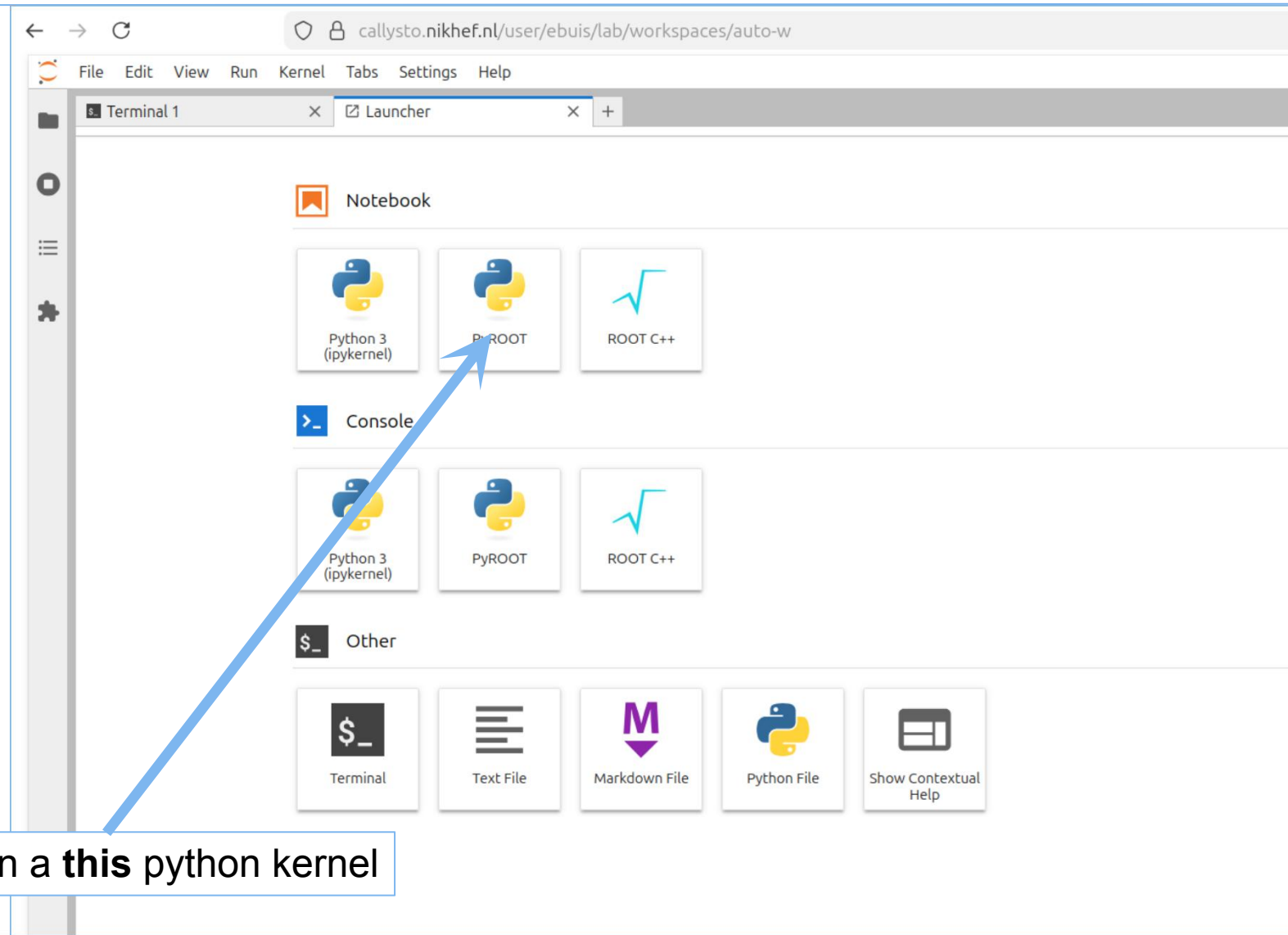
Running Jupyter notebooks



The screenshot shows a JupyterLab web interface in a browser. The address bar displays `callysto.nikhef.nl/user/ebuis/lab/workspaces/auto-w`. The top menu bar includes `File`, `Edit`, `View`, `Run`, `Kernel`, `Tabs`, `Settings`, and `Help`. On the left, a sidebar contains icons for file explorer, search, and other tools. The main area features a terminal window titled "Terminal 1" with a close button and a plus sign to add more terminals. The terminal shows the command `ebuis@wn-lot-063:~$ cp -R /data/km3net/users/ebuis/topical_lectures/notebooks .` with a cursor at the end. A blue arrow points from the text below to the terminal window.

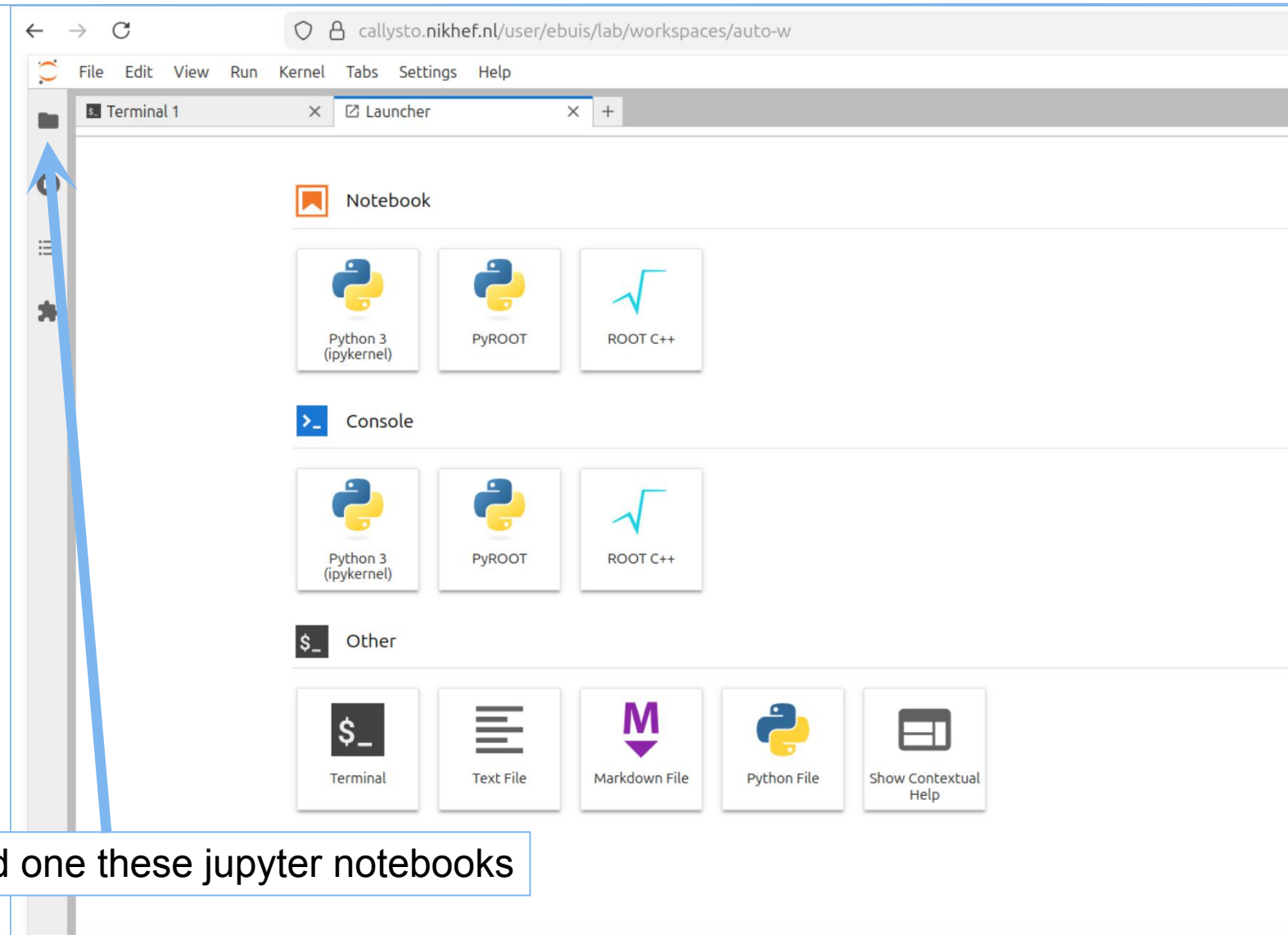
Copy the notebooks in to you own directory (otherwise we are tweaking the same notebook...)

Running Jupyter notebooks



Open a **this** python kernel

Running Jupyter notebooks



Exercises

- Three exercises have been prepared:
 1. Point source search
 2. Source associations with data
 3. An acoustic neutrino signal
- The order of exercises is not relevant
- Try to run the Jupyter notebooks and get familiar with the topic when tweaking the parameters
 - Learn about statistical methods
 - Make you own neutrino sound!