

## Particle Physics Masterclass: Computer Exercise – Logging in

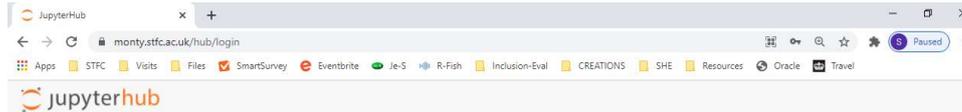
1. In your internet browser, go to one of the two addresses below:

<https://monty.stfc.ac.uk/>

<https://monty-backup.stfc.ac.uk/>

You should have an email telling you which server to use.

2. Type in your username and password and Sign In



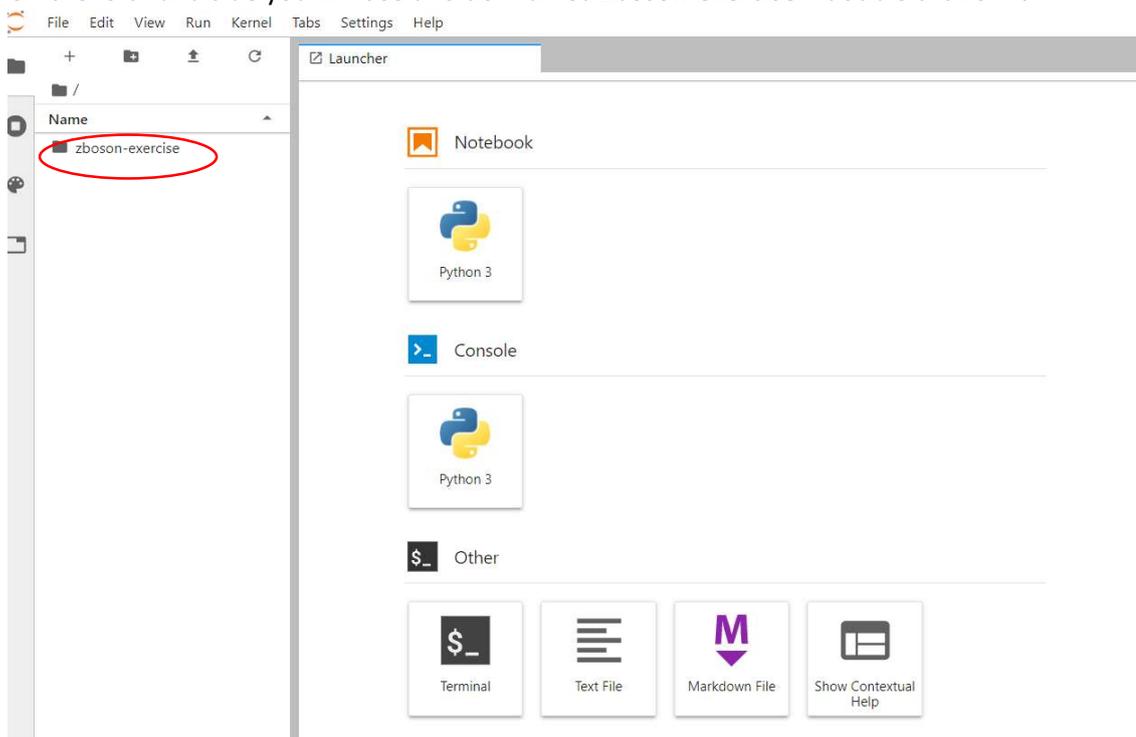
Sign in

**Username:**

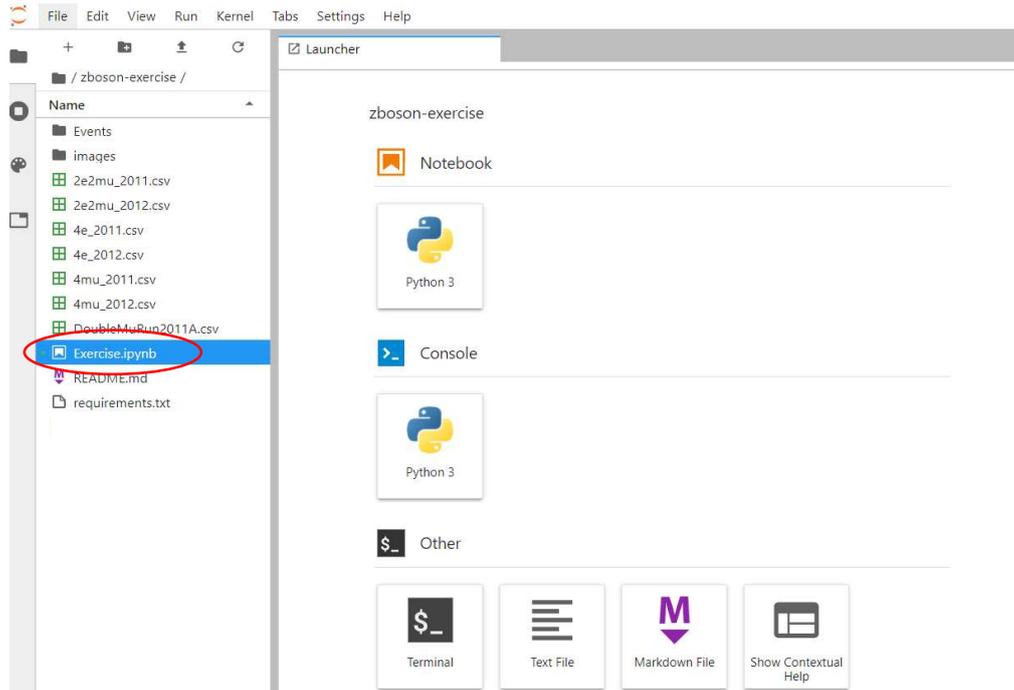
**Password:**

If your username and password do not work, try the other server (monty or monty-backup).

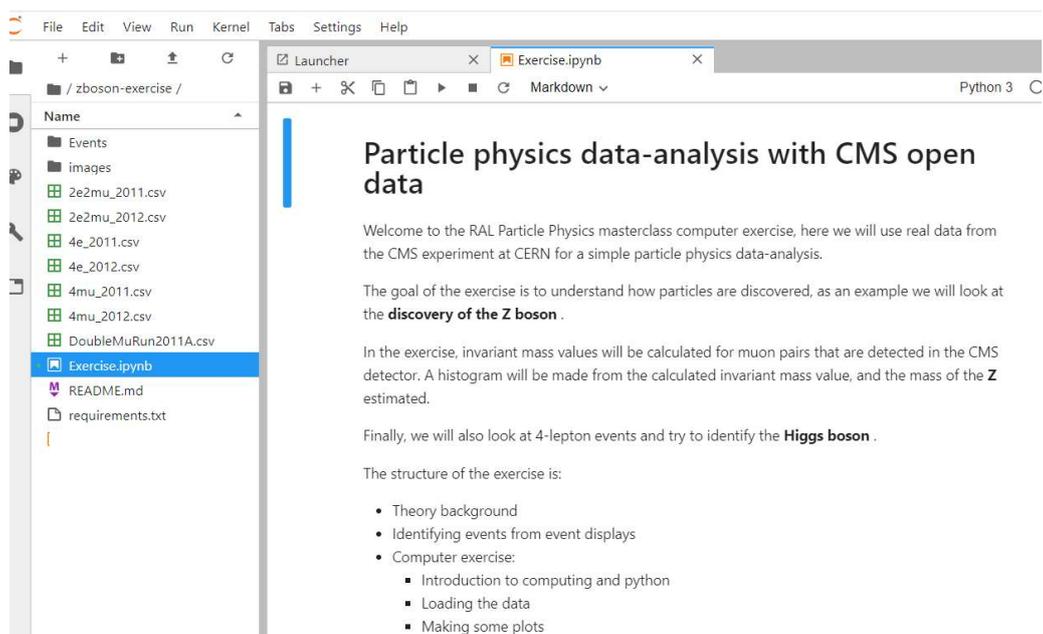
3. On the left hand side you will see a folder named **zboson-exercise** – double click on it



4. On the left hand side you will see a file named **Exercise.ipynb** – double click on it



5. This will open the exercise notebook:



6. To run a command, click a cell and press **SHIFT** and **ENTER** at the same time. When running, the square brackets (circled below) will have an asterisk [\*] in them. When the command has finished running, there will be a number in the square brackets.

We will be using python as the programming language: it is easy to get started, just type, for example, `1 + 1` in the cell below and click on "Run" icon above or click "SHIFT" & "ENTER" at the same time.



Try some other maths functions for yourself: use "-", "\*", "/"

## Backup options

Occasionally, schools have firewalls that block certain types of interaction from running. If this is the case for your school, when you try to run a command an asterisk will appear in the square brackets and not change into a number – and no answers will appear.

(This could also be a problem with your Kernel – go to **Kernel** in the top menu, click **Restart Kernel** and try running the code again.)

If this doesn't work, please try the following:

1. Mybinder
  - a. Go to <https://mybinder.org/v2/gh/olaiya/zboson-exercise/master?filepath=Exercise.ipynb>
  - b. This does take a while to load, but should allow you to access the notebook directly.
2. Google Colab
  - a. Go to [https://colab.research.google.com/github/olaiya/zboson-exercise/blob/mClassv5\\_colab/Exercise.ipynb](https://colab.research.google.com/github/olaiya/zboson-exercise/blob/mClassv5_colab/Exercise.ipynb)
  - b. Please note that this does require students to access a Google account, and does involve copying the data files used in the exercise to their Google Drive. This does not create a record of who has used the notebook.