

Instruction for the exercise session

The codes presented in the exercises are written with **python3**. The codes use the following libraries:

- numpy
- matplotlib
- scipy
- numba

You can either use the workstation provided by the EPFL or bring your own computer.

To use the workstation you have to log in and choose SB-IPHYS3-UBU which already contain python and modules. A module has to be updated and you have to type in the terminal

```
python3 -m pip install --upgrade "colorama"
```

You can open and edit any file either with the Text editor or from a terminal editor as vim or emacs. To execute the codes you need to run the following command: `python3 name_of_the_script.py` from the terminal. You need to save your files in the folder myfiles in order to have them save for next session.

If you use your own computer and don't already have python3 installed, you have to download it from the official website (<https://www.python.org/>) and download the modules. You can download and use an IDE to open and to execute the codes as Spyder (python and most modules except numba already included), Visual Studio Code,.... Otherwise use the solution proposed previously.

You can check that you have the libraries up and running by running a simple code as

```
import numpy
import matplotlib.pyplot
import scipy
import numba
```

If there is no error message then you are ready to run the codes of the exercise session. Otherwise you have to download the missing module from the website or via the terminal with the command pip:

```
python3 -m pip install "name of the module"
```