

Unconference session 1: Spectral analysis with Astropy and specutils

For this unconference session (same session on Tuesday and Thursday) you will need a Python environment set up that is capable of running Jupyter notebooks with the astropy and specutils packages.

If you are new to Python, you may want to look [here](#) for some resources on how to install and learn the basics of Python.

Depending on your preferences and system choices, you may find the install instructions there sufficient, but note that many scientists find it easier to use the Anaconda python distribution and package manager: <https://www.anaconda.com/products/individual>.

Once you have python installed, in most cases it will be sufficient to simply execute the following command at a terminal:

```
$ pip install specutils astropy matplotlib jupyter
```

Or if you are using anaconda:

```
$ conda create -n mos-unconf -c astropy specutils astropy  
matplotlib jupyter  
$ conda activate mos-unconf
```

If you are more comfortable using a graphical interface, you can use Anaconda Navigator - you can create a new environment in the "Environment" section (call it "mos-unconf") and make sure the "astropy", "matplotlib", "jupyter", and "specutils" packages are checked. If you don't see one of these you might need to add the "conda-forge" channel in the "channels" button.

Optionally, if you want to try out the specviz tool (which we may talk about in a later part of the session), you will also need to do:

```
$ pip install jdaviz
```

Although if you have trouble with this step you might find it easier to just watch along with the demo anyway!