

# Spectral analysis tools tutorial

*Tuesday 8 February 2022 11:10 (1h 10m)*

For this tutorial we will use a Jupyter Notebook (stored here) that will run *fully online* via Binder. However, there is an extra exercise that anyone can download and run on their computer. See instructions below.

## Your to-do list before the beginning

### Main exercise

1. Click on the following link to load the Notebook on your browser: <https://mybinder.org/v2/gh/keheintz/SpecAnalysis/HEAD?labpath=notebooks%2Ftutorial.ipynb>  
**It may take a few minutes to start.**
2. Once the JupyterLab page is up and running, you can use the Notebook without installing software or libraries locally.

### Extra exercise (not mandatory)

1. Open a Terminal on your computer
2. Download the repository with the command `git clone https://github.com/keheintz/SpecAnalysis.git`
3. Enter the directory: `cd SpecAnalysis`
4. Install the required package: `pip install VoigtFit`
5. Launch the interactive Python script: `python VoigtFit_example.py`
6. Follow the instructions on the interactive window. If the window doesn't pop up, we'll provide assistance during the tutorial to solve the problem.

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**Track Classification:** Software to investigate galaxy evolution