ETC-42

a generic, VO compliant, Exposure Time Calculator

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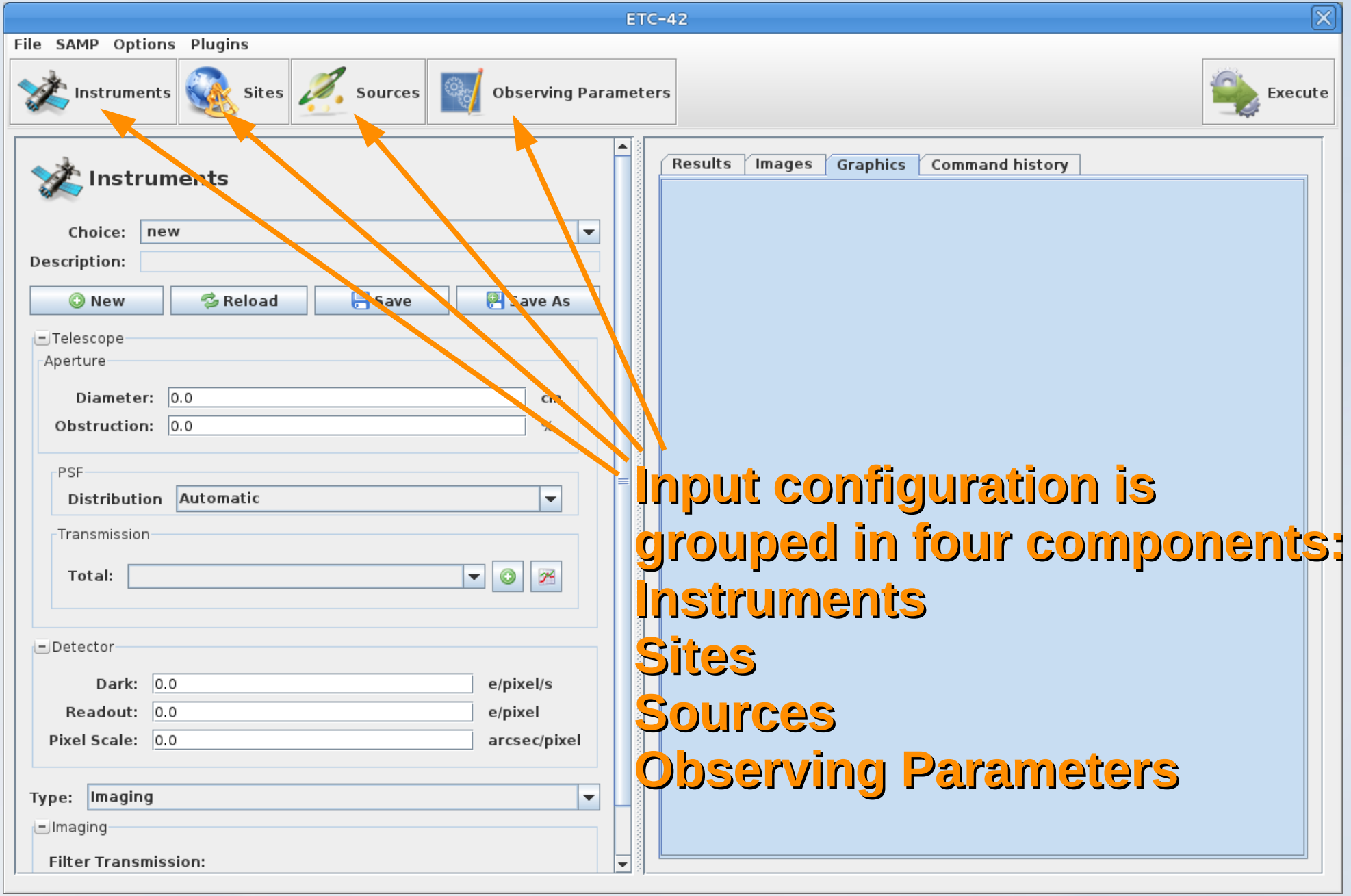
Nikolaos Apostolakos
nikolaos.apostolakos@oamp.fr

Laboratoire Astrophysique de Marseille
CeSAM

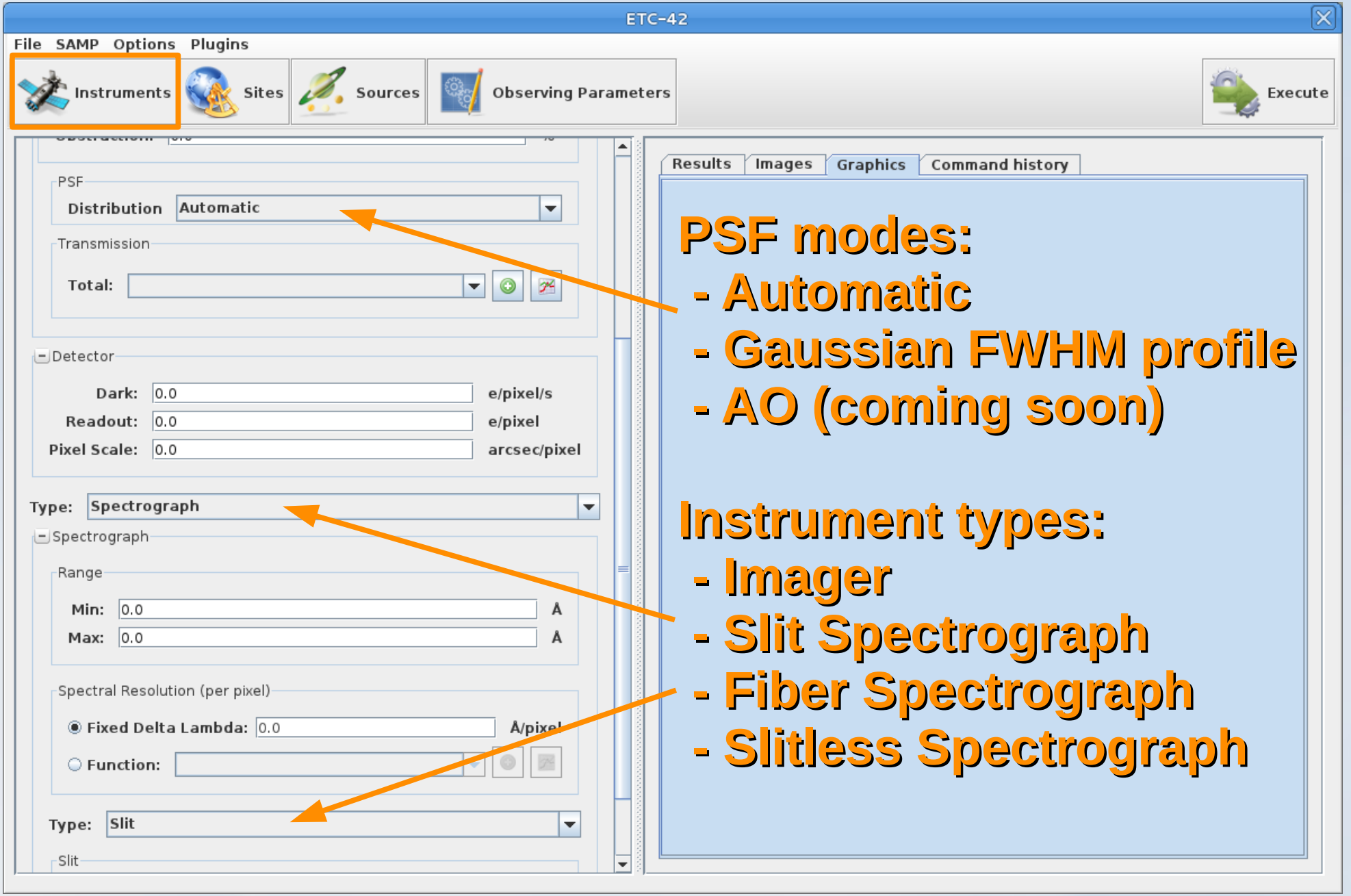
What is ETC-42 ?

- It is an **E**xposure **T**ime **C**alculator
- It is **generic**
  (not designed for a specific instrument)
- Provides a very flexible SNR calculation
- It is easily extensible
- It is **VO** compliant
- It targets a broader range of users

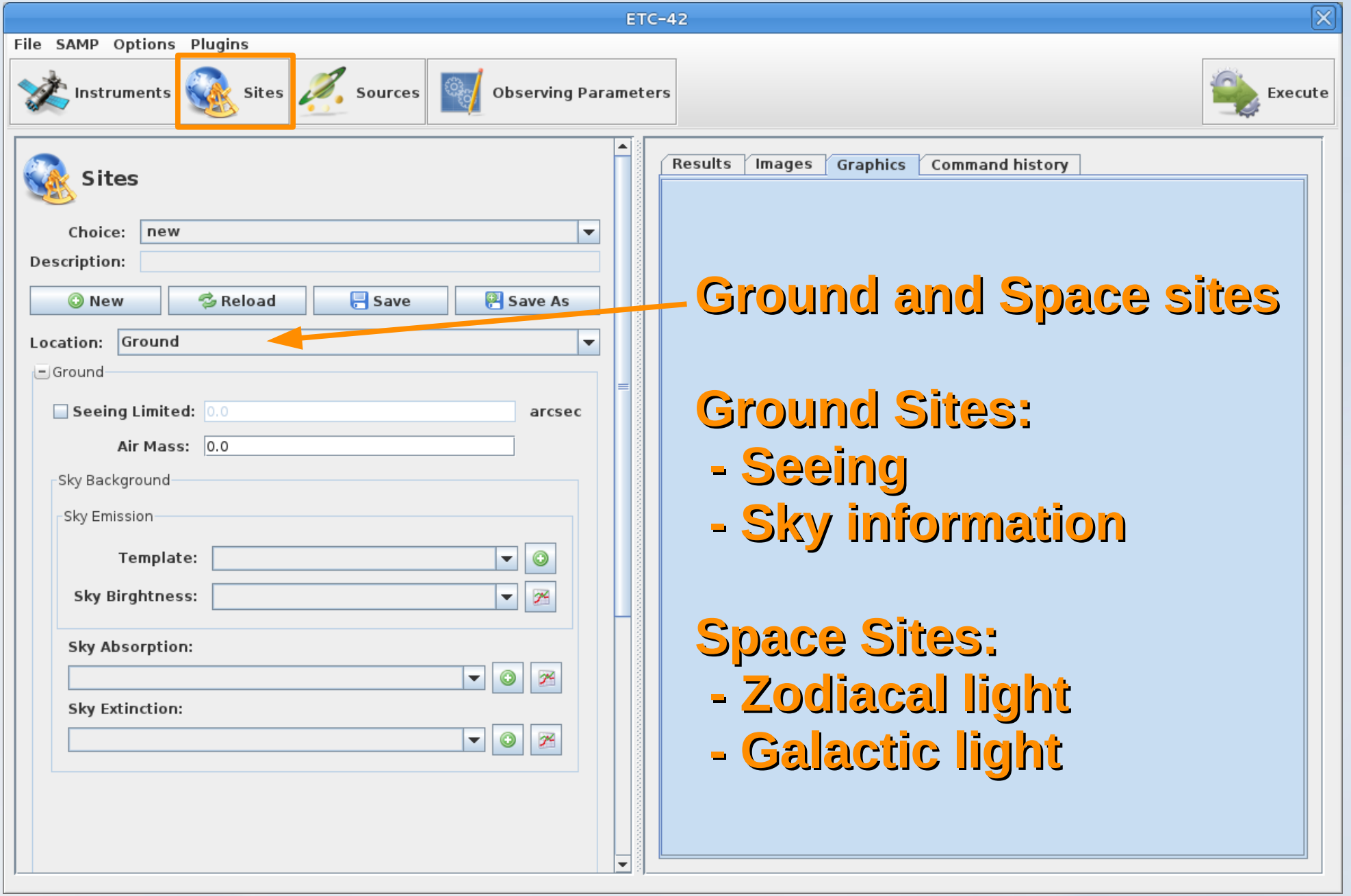
Input configuration



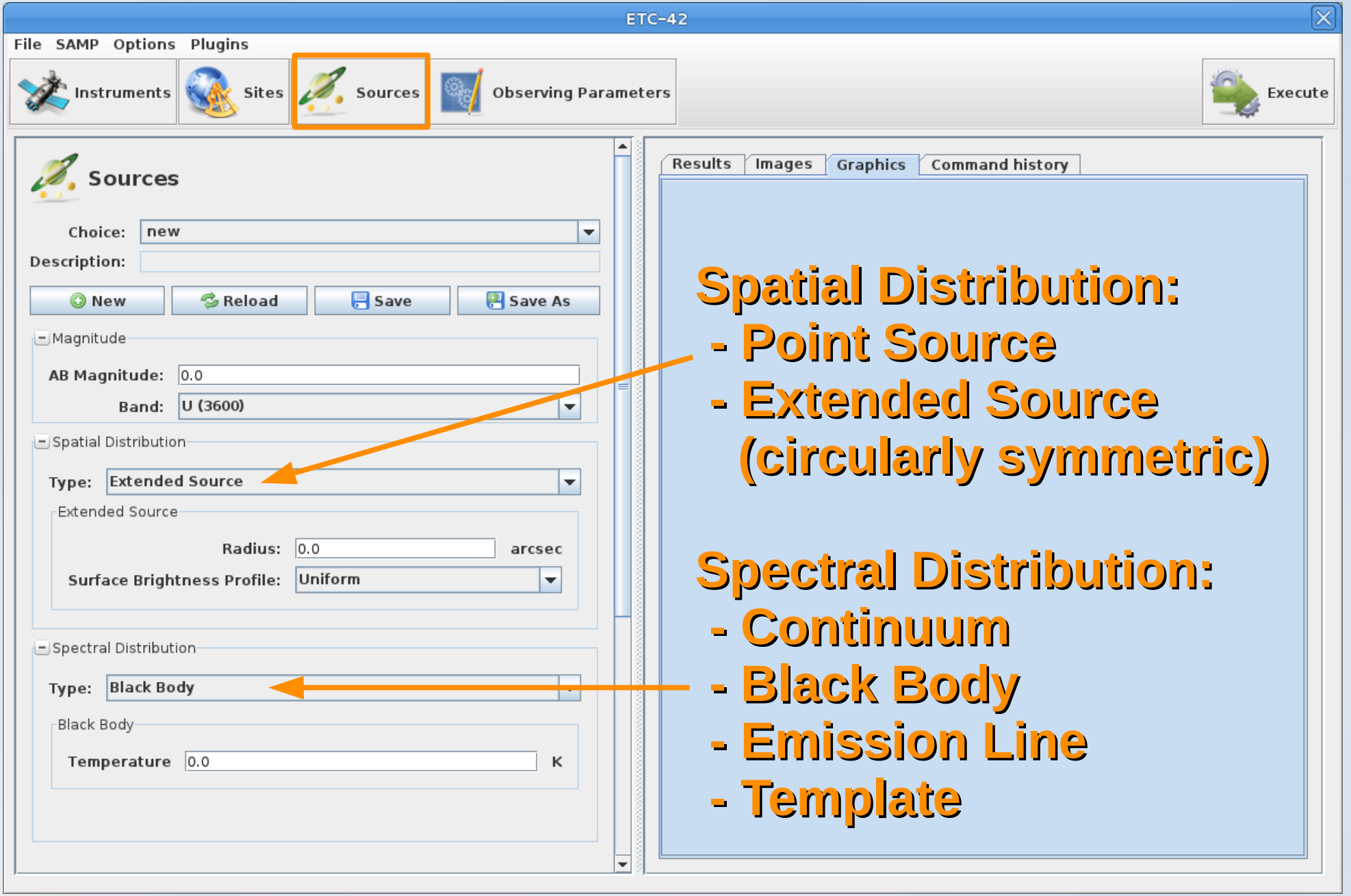
Instrument configuration



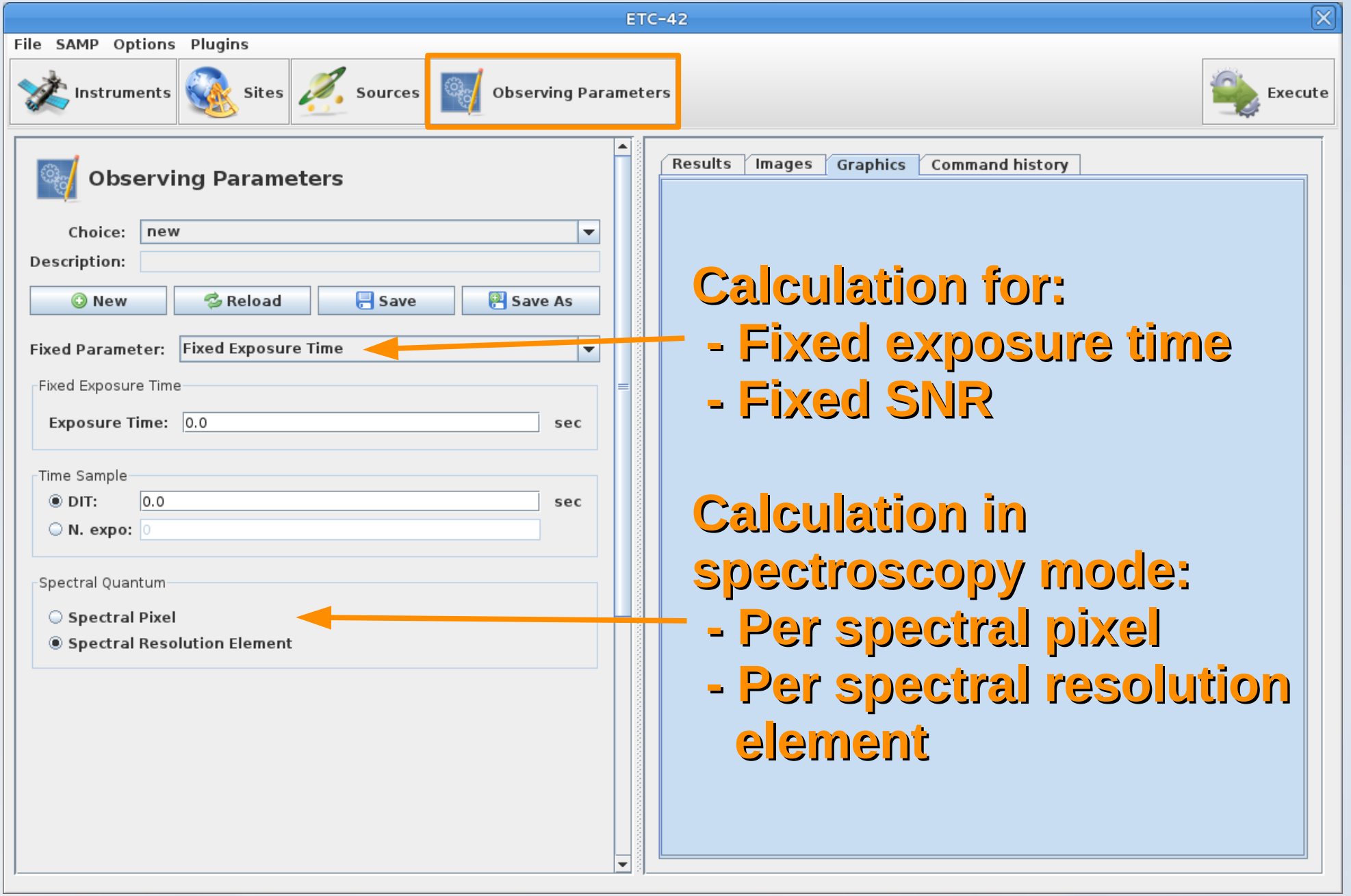
Site configuration



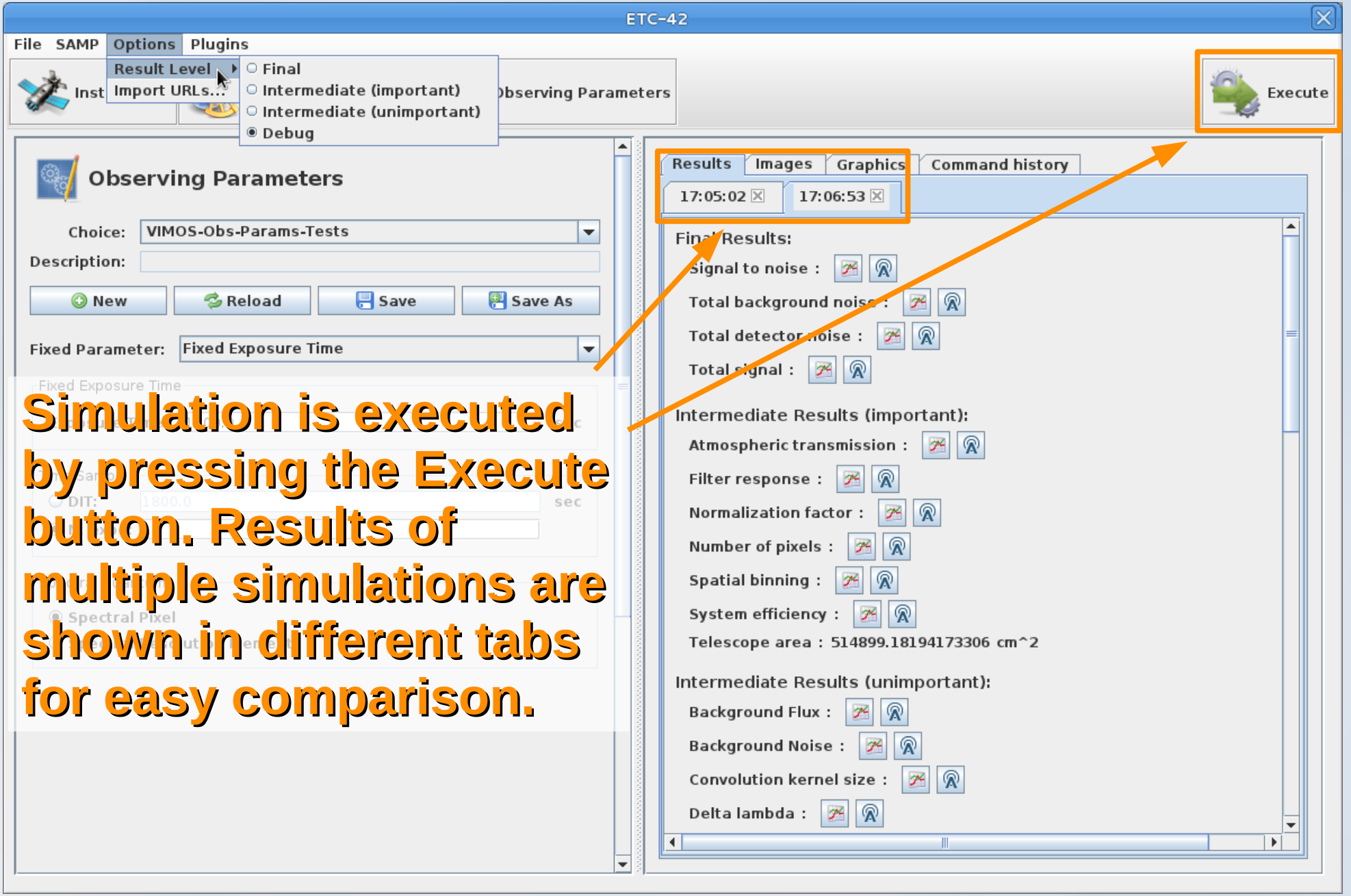
Source configuration



Observing Parameters configuration

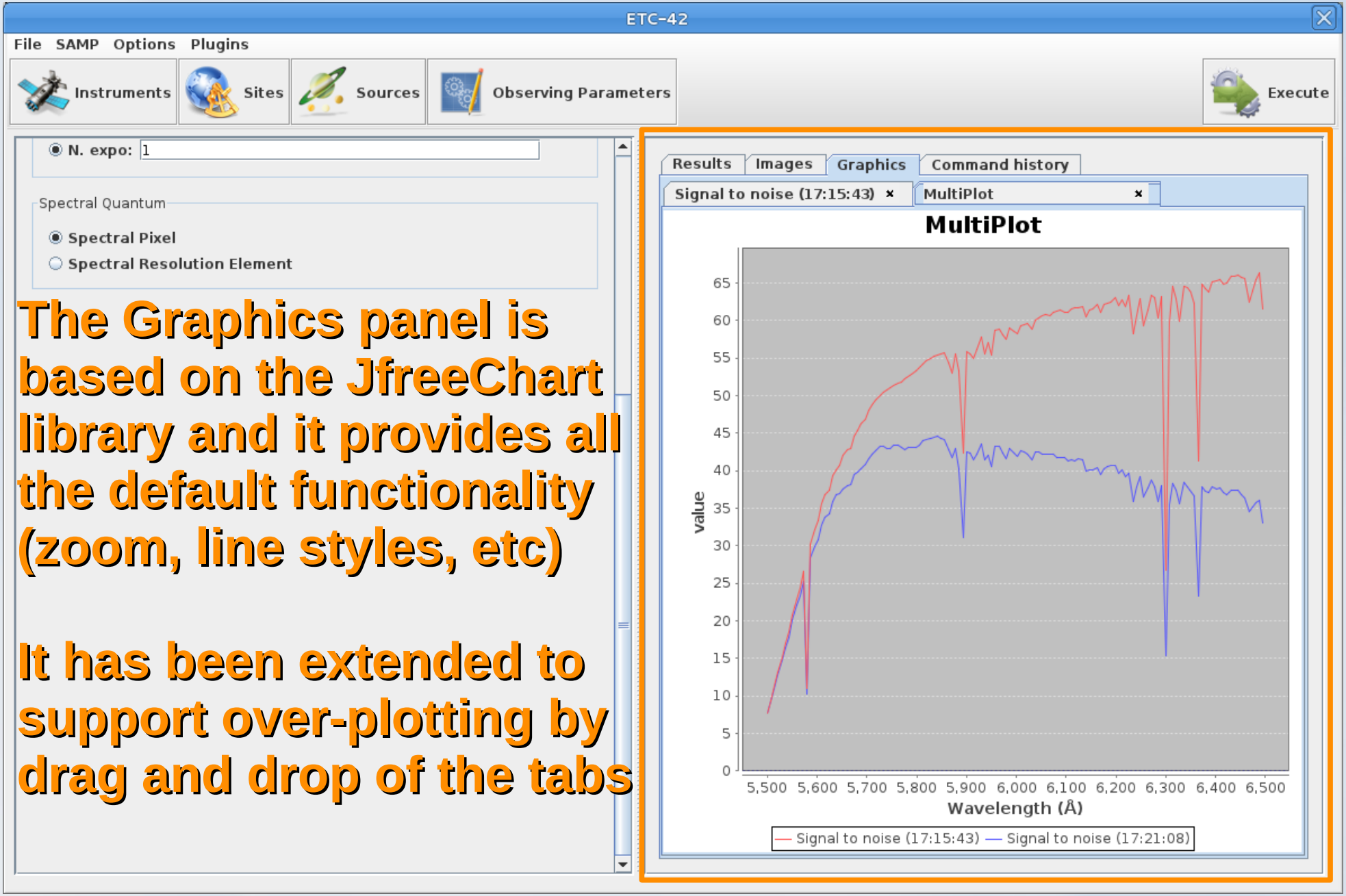


Simulation Results



Simulation is executed by pressing the Execute button. Results of multiple simulations are shown in different tabs for easy comparison.

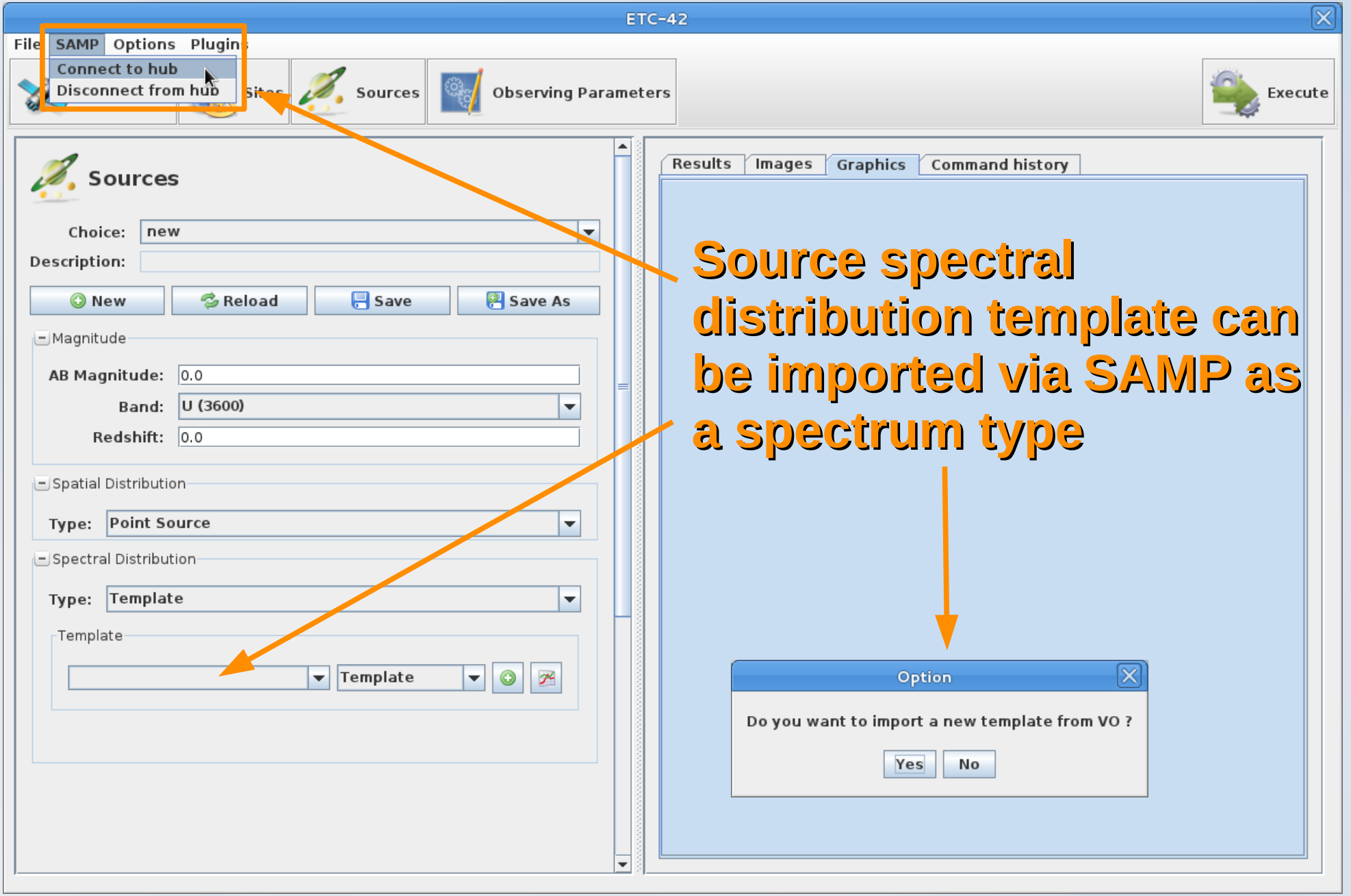
Graphics Panel



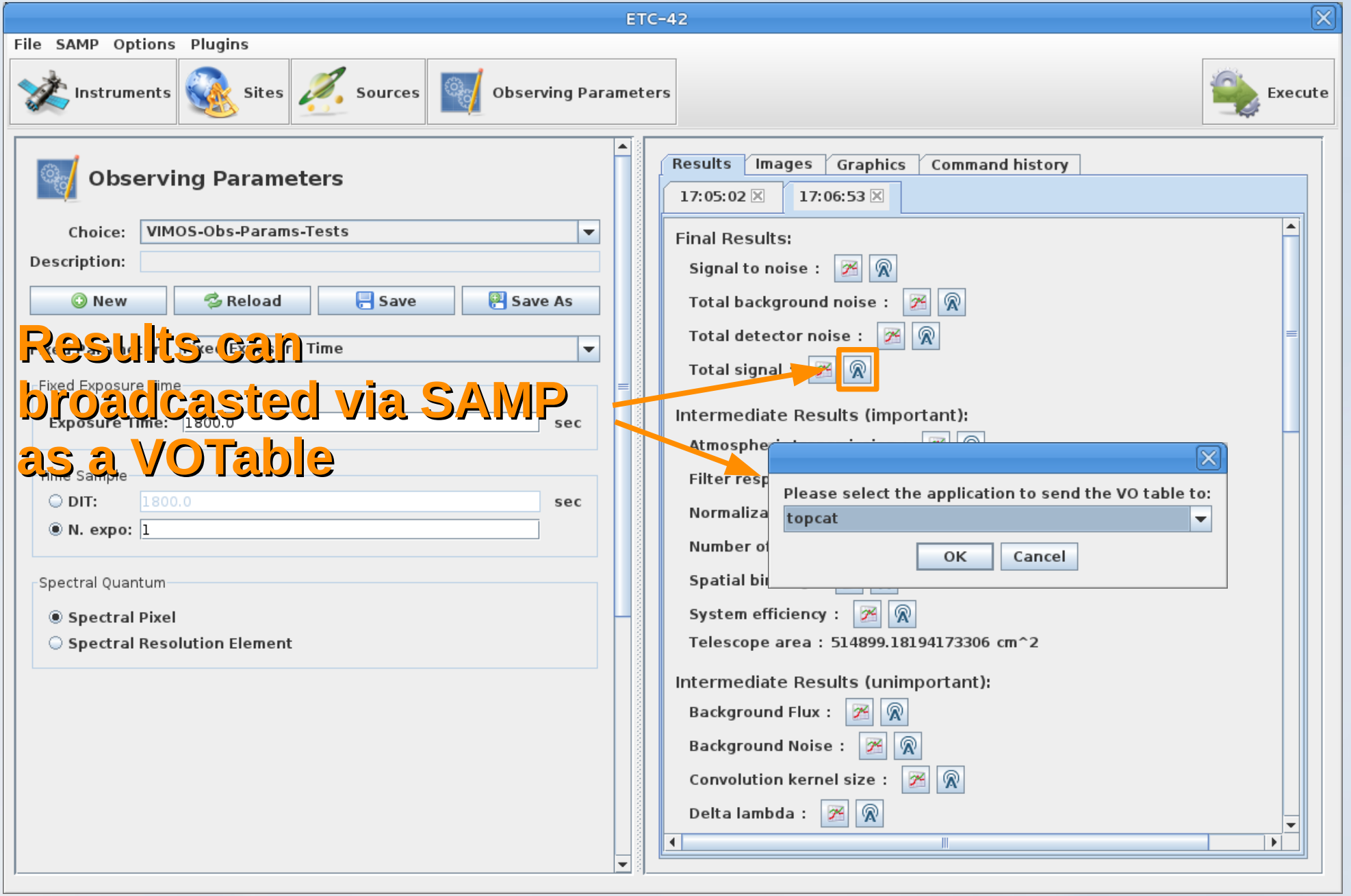
The Graphics panel is based on the JfreeChart library and it provides all the default functionality (zoom, line styles, etc)

It has been extended to support over-plotting by drag and drop of the tabs

VO Functionality



VO Functionality II



Results can broadcasted via SAMP as a VOTable

Other Functionalities

- Importing / Exporting
  - XML files
  - Import locally or from remote repositories
- Command line mode
  - Scripts are supported
- Plugin framework
  - Access and modify the input configuration
  - Run the simulation (one or multiple times)
  - Use the ETC-42 results panel

Future development

VO related

- Source flux from image
- Slit definition via SAMP (from Aladin)
- Import / Export in CharacterizationDM - ObsCoreDM

Other

- PSF from data cube
- Simulated image as output
- Hybrid mode (GUI with command line)

More information

ETC-42 web page:
http://projets.oamp.fr/projects/etc

- Download the ETC-42
- Download documentation
- Download configuration files
- Report bugs
- Request new features
- Stay updated with latest news via Atom feed

Want to contribute?

- Download and use ETC-42
- Let other people know about it
- Contribute instrument and site configurations
- Suggest new features
- Build and contribute plugins

For more information please contact:

nikolaos.apostolakos@oamp.fr

or

christian.surace@oamp.fr

END OF PRESENTATION

ANY QUESTIONS?