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Data processing of CRIRES data: FAQs

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Data processing of CRIRES data: Frequently asked questions

• Are there any known problems with CRIRES data?

Answer: The quality control group keeps a list of know problems at

http://www.eso.org/observing/dfo/quality/CRIRES/qc/problems_qc1.html

• How can I read in CRIRES reduced data using IDL or IRAF?

Answer: See Appendix A and B of the <u>CRIRES data reduction cookbook</u>.

• Is there a script to associate science and calibration data, create master frames and do the data reduction?

Answer: See Appendix C of the <u>CRIRES data reduction cookbook</u> after using the CalSelector to download files from the archive. Nodding only is supported.

• I have two objects in the CRIRES slit, and I want to extract both spectra, how do I do it?

Answer: Use the recipe parameter "spec zone". Note that "y_pos_c1,2,3,4" is a list of Y positions on detectors 1-4 where to perform the wavelength calibrations (default is to use the spectrum position)" and **not** where the extraction is performed.

 I have a very low S/N spectrum and/or just emission lines, how can I reduce my spectra?

Answer: At the moment this is not supported by the ESO pipeline. You could use e.g. IRAF or IDL to extract the spectra.

There are few ThAr lines in my wavelength calibration spectra, what do I do?

Answer: In order to obtain a good wavelength solution with CRIRES, you should have at least two or three ThAr lines visible on each detector, preferably well spaced, at least for a 2nd order polynomial. Otherwise the results of the solution will likely not be trustworthy. Obviously this is not a problem of the pipeline but with the wavelength calibration source itself. If you have a few lines then the best you can probably do is to use the recipe crires_model_fix with a model file and (x,y,wavelength) position of known lines.

• How do I plot my reduced spectra?

Answer: Please use the recipe CRIRES util plot.

• Can I run the ESO CRIRES pipeline with MacOS?

Answer: See section 6.2 of the <u>data reduction cookbook</u>.