FIRS:

The NSO FIRS software package provides a basic data reduction pipeline for single and multi-slit data taken with FIRS in either infrared wawelength (1083 nm or 1565 nm). The routines for 630 nm data have not been updated after an initial version and might not work properly with new FIRS data because of a change in the modulation scheme of the instrument.

In the .tar.gz file firs_soft_ddmmyy.tar.gz, you will find included:

1. a README.txt with an ultra-compact description of the code and its usage,

2. the manual firs_soft_manual.pdf with an extensive description of the code showing examples how different reduction steps should look like,

3. the complete set of IDL routines for the data reduction,

4. an HTML page firs_soft.html that contains the alphabetical list of programs with their header description,

5. a series of IDL programs that execute the data reduction for specific days (cal_ddmmyy_wavl.pro).

All programs are documented inside as well. Version history is not maintained, the routines are kept backwards compatible instead.

Known name conflicts with routines in other astrophysical IDL libraries have been removed. In case you encounter a problem with some specific routine, please contact cbeck@nso.edu.

It is possible to automatically create an HTML overview archive of the observations. In case you plan to put this archive online, please remove the files fears.gif and fearsl.gif from the online version to avoid trouble, they might have a copyright on them.

For the removal of interference fringes in Stokes QUV, please have a look at the manual for the SPINOR reduction package and the corresponding routine spinor_corr_fringes.pro that should work with reduced FIRS data as well because of an identical data format in the final data.

For any problems, comments or suggestions please contact cbeck@nso.edu.