

A New NeoNarval Data Reduction Software with PyReduce

After the upgrade of the Narval instrument to NeoNarval, concerns have been raised regarding the quality of results in polarimetry and precision in velocimetry. Investigations into the topic have hinted at both instrumental and software issues that must be resolved in order to accurately exploit the data. We present our identification of issues and a comparison of the data reduction software (DRS) to our subsequent work on adapting PyReduce, an open-source reduction pipeline for echelle spectrographs, to spectropolarimetry. PyReduce is already in use for a variety of instruments (i.e. HARPS, UVES, etc.), and allows for easy adaptation to reflect changes during the lifetime of the instrument, as well as the ability to add new instrument profiles for current and future spectropolarimeters.