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Integrated data analysis for precision spectroscopy

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To achieve its purpose, the analysis of astronomical data must be (1) reproducible, (2) versatile in handling both multi-messenger observations and simulations, (3) easily automatized and scalable. In the field of optical spectroscopy, the demand for high-level procedures to process the data has been met by a growing number of dedicated software packages; what is still lacking is a shared environment to seamlessly combine this resource to fully exploit their potential. An effort in this direction is provided by Astrocook, a Python package developed at INAF-OATs to analyze quasar spectra and equipped with its own graphical user interface to launch procedures and create workflows. In this talk I will describe the current status of Astrocook and raise the issue of its possible connection to an archive 2.0 framework.

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