

Talk ID: Red/Arch1

Submitted by: Marco Fumana

Partner: INAF

Instrument (for science papers):

The Italian Spectroscopic Reduction Center

Marco Fumana

Abstract

The Italian Spectroscopic Reduction Center is in charge of organizing and reducing INAF spectroscopic data acquired by LUCI and MODS spectrographs during the Italian time.

Data are automatically retrieved from the LBT archive (<http://lbtarchive.as.arizona.edu/>) and classified, by an automatic unpacking procedure; spectroscopic data are then processed using a dedicated semi automatic pipeline developed in Milan.

Reduced 1D spectra, calibrated in wavelength and flux, are stored in the LSC database (<http://lsc.oa-roma.inaf.it/>) from where the PI can retrieve them.

The talk will illustrate the flow of the spectroscopic INAF data, from data acquisition up to reduced data distribution.

I will focus on describing the main reduction steps, the quality checks routinely performed and will mention the main problems encountered so far.

Talk ID: Red/Arch2

Submitted by: Kevin Croxall

Partner: OSU

Instrument (for science papers):

The MODS Pipeline: Reduction and Calibration of MODS Data

Croxall, Kevin; Pogge, Richard

Abstract

The MODS1 optical spectrometer has established itself as one of the work-horse instruments of the LBT. However, the high quality data produced by MODS on LBT is only useful if it can be reduced and analyzed by the users. Thus, we present to the users community the MODS reduction pipeline. I shall review the methodology used by the pipeline to reduced MODS data. This includes our novel approach for mapping slits, and a rough wavelength solution, onto the detector. A brief overview of the reduction procedure will also be discussed. I will also present the new quick-look tools that will be available to observers at the LBT.

Talk ID: Red/Arch3

Submitted by: Vincenzo Testa

Partner: INAF

Instrument (for science papers):

The LBT Italian Coordination Facility Data Handling and Distribution Service

V. Testa, S. Gallozzi, D. Paris, M. Fumana, A. Fontana, R. Speziali, B. Garilli, et al.

Abstract

We present a brief report on the organization of the data handling and distribution service of the LBT Italian Coordination Facility. Some statistics on the efficiency of the data reduction and distribution and on the scientific throughput are discussed as well.

Talk ID: Red/Arch4

Submitted by: Riccardo Smareglia

Partner: INAF

Instrument (for science papers):

LBT Distributed Archive: new improvements and perspectives

R. Smareglia, C. Knapic, M. De Marco

Abstract

Large Binocular Telescope - Distributed Archive and its Interface are the main distribution and retrieval software to manage and rely files from the telescope to user receivers.

Recently, all the ingesting and distributing software are revisited in order to optimize and burst the performances of data dissemination. Flexibility and robustness are the main keywords that allow a more performing system to guarantee delivery and tolerance to faults, errors and interruptions to an extremely useful source for science: raw files.

With the New Archival Distributed InfrastructuRe (NADIR) system, also calibrated files could be ingested in the archive in an easy way and will be ready soon. The future perspectives in the vision of LBTO and IA2 is integrate raw and calibrated data, allowing connection with local and remote pipeline service to best manage data allowing an improvement of scientific results. This solution is under study, and itâ€™s based also on IA2 experiences.