



Astronomy ESFRI & Research Infrastructure Cluster
ASTERICS - 653477



Madrid VO School D4.2

E. Solano, F. Genova

Targets

Three Tasks in support to three complementary targets

- Task 4.1: Support to astronomy ESFRI facilities, their pathfinders and other infrastructures of pan-European interest for implementation of their data in the VO framework (INAF/UHEI)
- Task 4.2: Support to the astronomical community (INTA/CNRS-CDS) – **Annual School**
- Task 4.3: Updates of the VO framework from feedback and requirements (CNRS-CDS/UEDIN)

Deliverables

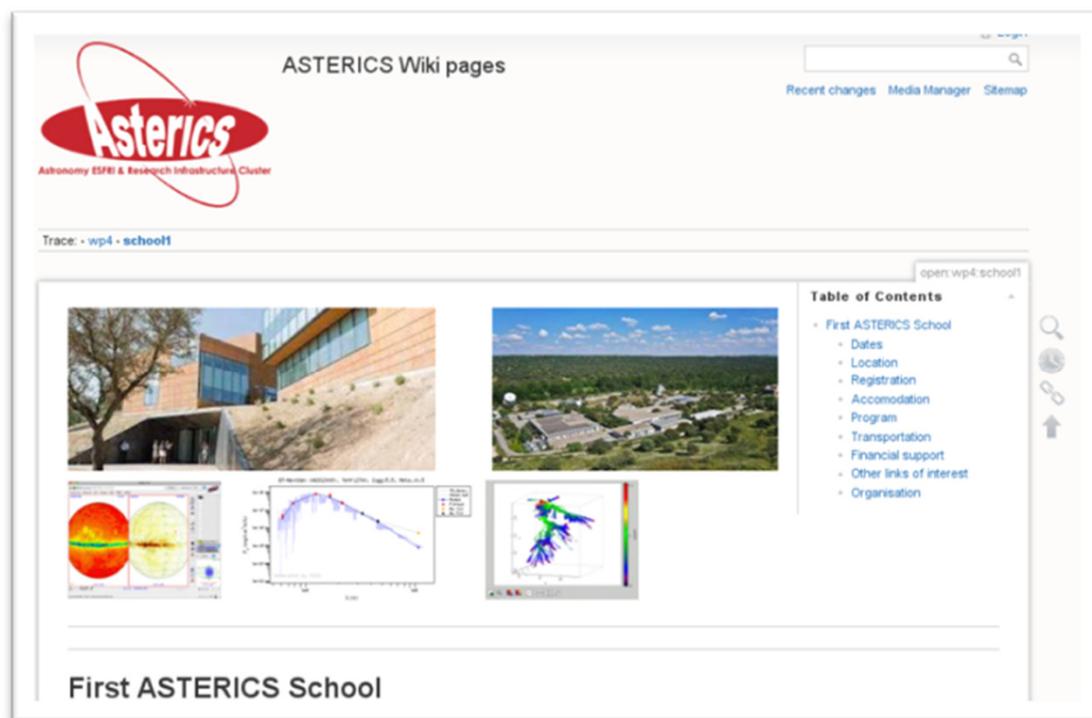
- One deliverable/task during the period
- Deliverables are Workshops, the « text deliverable» is provided several weeks afterwards

#	Title	Lead partner	Due date	Actual date and location
D4.1	First DADI Technology Forum	CNRS/CDS (Task 4.3)	September 2015	Held 17-18 Sept. Strasbourg Del. 3 Nov.
D4.2	FIRST ASTERICs European School	INTA (Task 4.2)	November 2015	Held 15-17 Dec. Madrid Del. being finalized
D4.3	First ESFRI Forum & Training Event	INAF (Task 4.1)	November 2015	Held 3-4 Dec. Trieste Del. Being finalized

D4.2 First DADI School

- 15-17 December 2015
- 42 participants from France, Germany, Italy, Spain, UK, and from Belgium, Greece, Lithuania, Poland, Portugal and Slovakia, also CTA, LOFAR, ESO
- 11 tutors
- Information disseminated through national mailing lists, contacts in non-partner countries, through the ASTRONET network, through the IVOA and EAS Newsletter

School web site



The screenshot shows a DokuWiki page titled "ASTERICS Wiki pages" with a search bar and navigation links for "Recent changes", "Media Manager", and "Sitemap". The page content includes the Astetrics logo, a breadcrumb trail "Trace: • wp4 • school1", and a "Table of Contents" for "open wp4: school1". The table of contents lists: First ASTERICS School, Dates, Location, Registration, Accommodation, Program, Transportation, Financial support, Other links of interest, and Organisation. The main content area features a grid of images: a modern building, an aerial view of a campus, two astronomical spectra plots, a line graph of a spectrum, and a 3D visualization of a spectral line profile. The page title "First ASTERICS School" is displayed at the bottom.

<https://www.asterics2020.eu/dokuwiki/doku.php?id=open:wp4:school1>

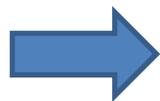
Objective and outline

- Learn enough about the VO to be able to use it in one's own research
- Gather feedback from participants (on VO tools and on different aspects of the school, in particular the tutorials)
- Early career scientists and colleagues from the ESFRIs and pathfinders
- Outline
 - Short presentation of the IVOA and ASTERICs
 - “Hands-on” tutorials & “Treasure Hunt”
 - Tutorials are selected to cover the most important functionalities of the most popular VO tools
 - Participants' own projects
 - Presentation of some of the projects and feedback session

Preparatory work

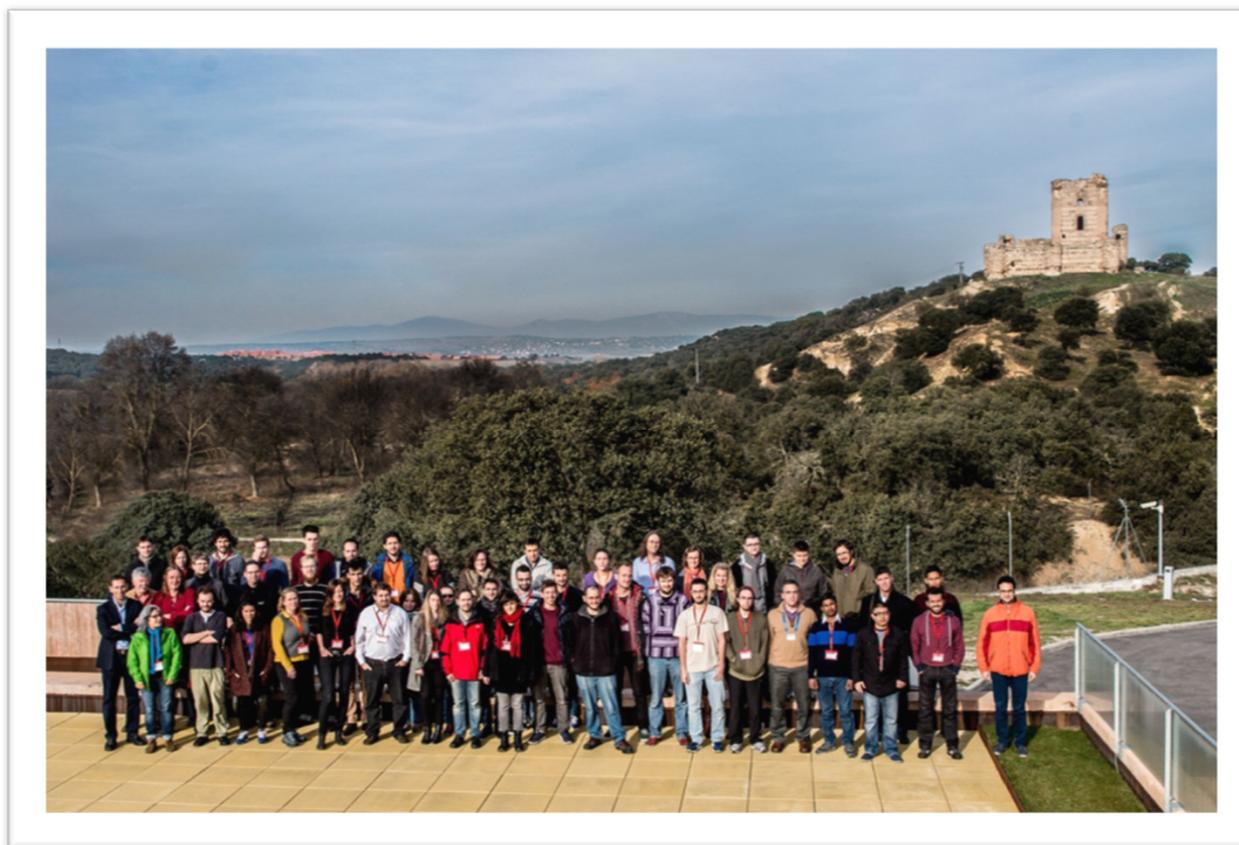
- Update of the tutorials
 - Detailed end-to-end example of VO usage
 - « Treasure Hunt » : questions to answer with a limited time
- Individual contact with the participants about their science topics to prepare the session on participants' projects
 - Field, Research, Type of data, Wavelength range, Archives of interest, Operations on data, Experience with VO tools
 - Tutor assigned on each aspect of the project

Tutorial repository




The screenshot shows a web browser window displaying the 'Scientific Tutorials' page on the Euro-VO website. The browser's address bar shows the URL `www.euro-vo.org/?q=science/scientific-tutorials`. The page features a header with the 'EURO VO' logo and a navigation sidebar on the left. In the sidebar, the 'Scientific Tutorials' link is circled in blue, with a blue arrow pointing to it from the left. The main content area is titled 'Scientific Tutorials' and lists several tutorial topics, each with a date and a brief description. The topics include:

- The CDS tutorial [ASTERICS VO School, Dec 2015]
- Discovery of Brown Dwarfs mining the 2MASS and SDSS databases [ASTERICS VO School, Dec 2015]
- Classifying the SEDs of Herbig Ae/Be stars [ASTERICS VO School, Dec 2015]
- Determination of stellar physical parameters using VOSA [ASTERICS VO School, Dec 2015]
- Multi-instrument, multi-wavelength study of high energy sources with the virtual Observatory [ASTERICS VO School, Dec 2015]
- Advanced Functionalities in TOPCAT [ASTERICS VO School, Dec 2015]
- Adding catalog data to object lists using the VO [2015]
- Discovering useful data using the VO registry [2015]
- Ad-hoc calibration using Aladin [2015]
- Processing and visualizing simulation data with TOPCAT [2015]
- Working with spectra using SPLAT [2015]
- TOPCAT and Aladin working together [2015]
- Determination of stellar physical parameters using SPECFLOW [March 2015]
- Abell 1656: The Coma Cluster of Galaxies [June 2014]
- Multi-instrument, multi-wavelength study of high energy sources with the virtual Observatory [Oct 2013]
- Treasure Hunt [Feb 2013]
- Determination of stellar physical parameters using VOSA, (step-by-step) [Feb 2013] Uses VOSA
- CDS Tutorial, (step-by-step) [Updated June 2014] Uses the CDS Portal and Aladin
- Study of the Coma Cluster, with a step-by-step description and a more expanded presentation; [Mar 2011] Updated version [Feb 2013] for CoSADIE



Follow-ups

- On the spot
 - Questionnaire
 - Feedback session, incl. Feedback on tools and VO
- After the school
 - The participants will be polled each year to follow the School impact and monitor their usage of the VO
 - Participants encouraged to act as VO ambassadors
 - Two seminars in Athens in the first half of 2016

Next step

- Second School held in Strasbourg
~November 2016
- How to organise a more active participation of the ESFRI and pathfinders? Specific tutorials would be welcome
- Specific « scientific support » activities for each ESFRI in Task 4.2 will help since relevant tutorials will be identified/prepared