

VO – day ... in Tour

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Abstract:

A day-and-a-half course devoted to the VO, called VO-day, was therefore organized for the Italian community, in the framework of the Euro VO-AIDA project and of the coordination initiatives at the international (IVOA) and national (VObs.it) levels. The course was held in all INAF cities where there are INAF scutures, with the support of INAF-OATs and INAF-SI, and in collaboration with some the INAF structures, CINECA and some Italian Universities. The goal of the workshop sare to expose to the astronomers to the variety of VO tools and services available today so that they can incorporate them efficiently in their everyday research activities

Web Page: <http://www.as.oats.inaf.it/voday>

Vo-Day ... in Tour: Program

Methods:

- A fast overview about what is the VO, the IVOA and the tools
- lecture and tutor the participants on the usage of such tools (with Italian partnership as first)
- give real life examples of scientific applications
- hands-on exercises

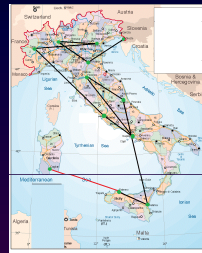
First Day :

- 09:30 - 09:35: **Introduction**
R. Smareglia
- 09:35 - 09:50: **The Virtual Observatory: an Overview**
R. Smareglia - F. Pasian
- 09:50 - 10:15: **A Virtual Tour of the Virtual Observatory**
P. Manzato
- 10:15 - 11:50 Use Case 1: Confirmation of a Supernova candidate
G. Iafrate - M. Ramella
- 11:50 - 13:00 Use Case 2: Sarchino for Data available for the bright galaxy M51
M. Molinaro
- 13:00 - 14:00 Lunch
- 14:00 - 15:00 Use Case 2 : (continue)
- 15:00 - 17:00 Use Case 3: Photometric redshifts with DaME
M/ Brescia, O. Laurino , R D' Abrusco
- 17:00 - 19:00 Presentazione attivita' di supporto alla didattica.
G. Iafrate - M. Ramella

Second Day :

- 09:30 - 11:30 Use Case 4: Data Extraction from Multidimensional Dataset
U. Becciani - A. Costa
- 11:30 - 12:00 Discussion / Feedback

Results:



- From December 2009 to April 2010:
- 12 Sessions + 1 Videocconf with TNG,
 - Touch all city with INAF structures,
 - 6 tutors for each session (11 people involved)

Registered: 272

→ more than ¼ of INAF research staff

Attendant: 244

Evaluation Form: 176 (sum of the forms are available at VO-day pages)

- About 70% already known VO as name (mainly they known tools but without use VO feature)
- Several People request more specific tutorials on VO tools and how publish his/her data on VO

Ecaluation form result: <http://www.as.oats.inaf.it/voday/Result.htm>

Conclusions :

The dissemination for any big and innovative project like the Virtual Observatory, should be one of the targets of the project itself. This gave to the people involved in the project the right view of how important is it, and a lot of energy to increase them work, new ideas and a good with the community.

The collage includes several key software components:

- ESFRI and ASTRONET statements:** A slide detailing the goals and challenges of the Virtual Observatory infrastructure.
- The VO Concept:** A presentation slide explaining the core idea of having all astronomical data on a single computer.
- TOPCAT:** A screenshot of the TOPCAT software interface, used for data analysis and visualization.
- Match images / create RGB:** A screenshot showing the process of aligning and combining different astronomical images.
- Spectra search:** A screenshot of a spectral search tool, likely used for identifying objects in large datasets.
- Dataset Preparation (USING TOPCAT):** A flowchart illustrating the steps for preparing data for use in TOPCAT.
- Run the network:** A screenshot showing the configuration and execution of a distributed network.
- 3. Improving Rendering:** A screenshot showing the optimization of image rendering for better performance.
- 5. Identify Particles:** A screenshot showing the identification of specific objects or particles in a dataset.

