



ASTROPHYSICAL VIRTUAL OBSERVATORY

***AVO Demonstration 2005
(Last but not least!)***

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Demo Overview

- Followed the recommendations of the SWG (January and June 2004 meetings):
 - Access to theoretical models
 - Spectral Energy Distribution (SED) builder
 - Improved tools (AVO prototype, SpecView, etc.)
- Both science cases come from SWG

Demo Overview

- Two scenarios:
 - Galactic: **AGB to PN Transition** (strong science case, SED building from archival data)
 - Extragalactic: **Star Formation Histories in Galaxies** (new VO computing concepts: towards the Grid; access to models)
- Multiwavelength, heterogeneous, and complex data: VLA, MERLIN, Spitzer, ISO (spectra and images), MSX, IRAS, 2MASS, WFS, HST/WFPC2, FUSE, IUE, plus VizieR catalogues
- Another VO paper to be written (Bayo, Garcia-Lario, Sierra, et al.)!

New Features

- New IVOA standards: Registries, Web Services
- Workflows and MySpace (linked to prototype) [*ASTROGRID*]
- Advanced AVO prototype [*CDS*] (following SWG's suggestions) with improved/new tools: SpecView [*STScI*], VOSpec [*ESAC*], multi-image/wavelength display, cut-out service, direct SIMBAD and VizieR query
- Ability to run galaxy evolution models in a VO context
- SED building on-the-fly

Agenda

Day 1, Tue, Jan. 25

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|-------|--|--------------------------|
| 12:30 | <i>Lunch</i> | |
| 13:30 | Welcome | M. Kessler |
| 13:40 | The AVO to Euro-VO transition | P. Quinn |
| 14:00 | Intro to Demo | P. Padovani |
| 14:10 | Technical Background | M. Dolensky |
| 14:25 | Background to Stellar Case | P. Garcia-Lario |
| 14:40 | S/W Demo of Stellar Case | A. Richards, S. Derriere |
| 15:05 | Background to Galaxies Case | P. Rosati |
| 15:20 | S/W Demo of Galaxies Case | N. Walton, M. Allen |
| 15:40 | Q+A | |
| 16:00 | <i>Coffee break</i> | |
| 16:15 | Behind the scenes: the ASTROGRID Demo infrastructure | N. Walton |
| 16:30 | New features & VO tools | M. Allen |
| 16:45 | Hands on with the Demo | |
| 18:15 | <i>Close</i> | |
| 21:30 | <i>AVO Closing Dinner and start of EURO-VO Celebration at La Cueva</i> | |

Day 2, Wed., Jan. 26

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| 09:15 | <i>Coffee</i> | |
| 09:30 | Feedback and comments on the Demo | |
| 10:30 | <i>News from other VO projects and more</i> | |
| 10:30 | Report on the NVO Demo | R. Hanisch |
| 10:50 | The Spanish Virtual Observatory | E. Solano |
| 11:00 | Two contributions to the VO | F. Kerber |
| 11:20 | Science in the EURO-VO Era | P. Padovani |
| 11:40 | <i>Demo, AVO, EURO-VO: SWG Input</i> | |
| 11:40 | A: Cosmology | TBD |
| 11:55 | B: Galaxy Structure & Formation | Richard de Grijs |
| 12:10 | C: Interstellar Medium, Stars and Planets | Timo Prusti, Alberto Salama |
| 12:25 | <i>Close</i> | P. Quinn |

Thanks to ...

- The AVO Team and partners
- The International Virtual Observatory Alliance (IVOA)
- Ivo Busko (SpecView), Pedro Osuna et al. (VOSpec), and VOIndia (VOPlot)
- All of you and Pedro Garcia-Lario & collaborators
- ESAC, especially Christophe Arviset & Michelle Arpizou, for the logistics and hospitality