



ASTROPHYSICAL VIRTUAL OBSERVATORY

AVO Demonstration 2004

Paolo Padovani

AVO Work Area 1 Manager

Demo Overview

- ❖ AVO first science
- ❖ Followed the recommendations of the SWG (2003 demo):
 - Support spectroscopy
 - Include a Galactic science case
 - Data cube access and visualization

Demo Overview

- ❖ Two scenarios:
 - Extragalactic: Obscured (Type 2) Quasars.
 - Galactic: Classification of Young Stellar Objects (YSO).
- ❖ Multiwavelength, heterogeneous, and complex data: MERLIN, VLA, CGPS, ISO (spectra and images), 2MASS, USNO, 2.2m/WFI, VLT/FORS (spectra), HST/ACS (images), XMM, and Chandra data and catalogues

New Features

- ❖ New standards: Simple Image Access (SIA) and Simple Spectral Access (SSA: first time ever)
- ❖ Improved Hierarchical Data Model (IDHA)
- ❖ Much improved AVO prototype with new tools: SpecView, VOPlot, cross-match, column manipulation
- ❖ Workflows and distributed computing

New Features (contd.)

- ❖ Provide access to any **VO-compliant** data collection: e.g., seamless and transparent access to ISO & XMM archives and ESO data products
- ❖ Improved usability

Thanks to ...

- ❖ The AVO team and partners
- ❖ The GOODS team
- ❖ The CDFS team
- ❖ Ivo Busko (SpecView)
- ❖ The ISO and XMM archives
- ❖ All of you