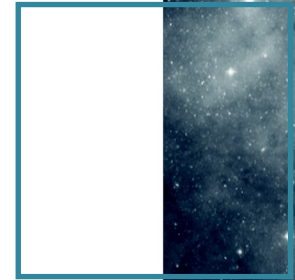# Radioastronomy interest group

Final plenary

F.Bonnarel (CDS) – M.Kettenis (JIVE)

Presentations summary

- Session : Saturday november 11th 11:00-12:30
  - MWA Archive & VO Overview (Greg Sleap)
    - Status of Murchinson Widefield Array operations and data processing
    - VO services challenge : staging and authentication access to Pawsey archive
    - Same tools with CASDA / ASKAP
  - Visualization for data cubes using SODA, as a preparation for the SKA archive (Ixaka Labadie Garcia)
    - X3D-X3DOM (based on open software) nice visualisation of cubes discovered via SIA + DataLink + SODA .
  - 4D (spatial-temporal-spectral) radio data in the VO (Baptiste Cecconi)
    - Nenufar data are 4 dimensional. Cubes , images, catalogs of sources and dynamical spectra derived from visbility data.
    - Catalogs and images displayed in Aladin.
    - Idea illustrated with slide demo: SAMP communication with Autoplot to dispaly dynamical spectra of the spectra

Presentations summary

- Accessing data from the VLA Sky Survey via the VO (Mark Lacy)
  - VLASS : continuum at 3Ghz 2.5 arsec resolution. Multi epoch.
    - → HiPS produced for the survey. To be registered
    - → TAP service + link to CADC SODA services / cutout around sources positions
- Access from visualisation tools to SKA science images and cubes stored in a rucio DataLake through IVOA discovery and access services (François Bonnarel)
  - VO services allow to discover SKA pathfinder and simulated datasets stored in the rucio datalake
  - Visualisation tools (VisIVO, Aladin Desktop and AladinLite) adapted to use these services and display data

- Time Domain session / Saturday 11th 16:00-17:30
  - Pulsar data discovery and access (Vincenzo Galluzzi)
    - INAF archives and services status
    - Radio Pulsar metadata mapped on ObsCore datamodel
    - Need for Time and Radio extension ?

General discussion on ObsCore Extension

- Presentation during DM session Saturday 11-11 at 9AM on ObsCore Extension new stuff status :
  - Single Dish details added
  - New dataproduct_types (spatial profiles)
  - Instrument type, tracking mode and scan mode added
  - f_min, f_max, f_resolution as views
  - Basic Obscore + extension as a single table (but may be a view on two tables)
  - All material on github and ivoa twiki for discussion
  - First implemention at JIVE in progress
- Discussion in Radio session
  - Question of managing several extensions at the same time : Time, High energy , radio ???
  - Instrumental parameters to tackle uv plane characterization , are they all useful, what is the science case, may suppress some of them .