Applications

Pierre Le Sidaner – Adrian Damian

Time domain

Judith Racusin – Pierre Fernique

Two sessions dedicated to Applications:

- VAMDC propose an ecosystem using some VO Standards to access distributed data. The library PyVAMDC allow to hide the complexity and discover and access VAMDC catalogs (CM. Zwolf)

- News on PyVO and Astropy : Astroquery, Mivot, VOParquet, data origin. It's largely use, it's a small efficient team and they need your participation.

- The evolution of the HATS and Parquet to handle very large catalogs in the VO. Using HIPS index and parquet format N. Caplar and FX Pineau following the note presented by M. Taylor

- **Evolution on libraries and client to handle HIPS 3D supporting large surveys P. Fernique**

- **how to mix HIPS to complete regions or precision, or to make color maps T. Boch**

- **How to address the Mango DM in VOTable using MIVOT from L. Michel**

- **Presentation of data format concerning high precision of radial velocity data in fits file. Preliminary question to IVOA for input to propose a nice access to these exoplanet data.**

One shared session with Time Domain:

- **Presentation of the existing situation, then of the needs arising from gravitational wave data**

- **Presentation of evolution of MOC and all the libraries and client functionalities by F.X. Pineau.**

- **Then usage of Healpix hierarchical Skymap in Ligo Virgo from L. Singer (NASA) and the problem reach in combining maps**

- **Presentation of A. Lambert (LISA France) about data coming from the future mission and question of alert and probability location. Open question to address the representation of this type of data.**

- **An interesting discussion on MOC, HIPS, representation, future need ...**

The discussion about VOEvent 3.0 will be addressed in a specific session later on

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