

# Applications Working Group

## Closing Session

Pierre Fernique - Chair  
Tom Donaldson – Vice Chair

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# Core Themes

- VO used more and more for real science
- “Big Data”
  - Code/User to data
    - More dependence on shared infrastructure
      - Joint session w/GWS on SSO
      - Probably good idea to continue joint sessions with GWS
  - Data to Code/User
    - Bring useful subsets of the data to the user
      - Real uses of TAP in variety of situations
      - Data summaries, visualization
      - Indexing data for speedy discovery and subset selection
      - e.g., HiPS and MOC

# Standards

- HIPS
  - 300+ surveys served by 12+ nodes
  - Heavy daily usage
  - Working draft of standards in progress
    - Ready for Trieste
  - Aladin Lite improvements in display accuracy
- SAMP
  - Possible updates needed to support https
- VO Table
  - Version 1.4 needed to support VODML object serialization
  - Proposals and discussion to be informed by VODML prototypes

# Presentations (1)

- Thomas Boch - The new CDS portal, built on top of HiPS and MOC
  - Client for Discovery, Preview and Access of CDS resources
  - Public release this (northern) summer
- Michel Gangloff - IVOA Standards in IRAP tools (3DView, AMDA, CASSIS) in the framework of H2020/VESPA
  - TAP, SSAP and SAMP being used for planetary sciences
- Gilles Landais - Spectra & images in Vizier
  - Indexing and serving information about associated data
  - Client and server features and tools for utilizing VO techniques
- Baptiste Cecconi - Using IVOA tools to support the JUNO space mission
  - Versatility of TAP and SAMP shown in VESPA
- Petr Skoda - Overview of new features in SPLAT-VO
  - Unparalleled use of SAMP integrating applications to do real science
- Pierre Lesidaner - VOTable discussion: header schema indicator for validation
  - Discussion on specification of schema, and it's use in validation
  - Schema not commonly used dynamically during parsing process.

# Presentations (2)

- Khadija EL Bouchefry - The use of Virtual Observatory tools: A Critical Review
  - Highlighted challenges for data providers in providing a reliable and predictable user experience
- Masatoshi Ohishi – ALMAWebQL
  - A great example of bringing useful subsets of data to the user
- Susana Sanchez Exposito - GUIpsy: a VO compliant tool for the kinematic analysis of datacubes
  - IVOA standards used in tying existing analysis package with new UI
  - SIA2 for cube data
- Daniel Durand, Thomas Boch - HiPS news: standardization process & Aladin Lite improvements
- Bruno Merin - ESAsky
  - Seamless and powerful interface for exploring a variety of VO data
  - Heavy use of TAP, HiPS and MOC