

Fifth Euro-VO Technology Forum

WP6



Theory into the VO

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Summary of WP6-Theory



- during IVOA Garching Interop. November 2009:
 - move toward integration and homogenization of SimDB-TAP and other protocols (in particular S3);
 - Get to a conclusive version of the Simulation Data Model (SimDM) after two implementations of the model;
 - Get to a conclusive version of the Simulation Data Access Protocol (SimDAP). Specific subject of discussion: generalization, representation of results.
- Currently INAF is tuning a scientific use case for Comparing BaSTI evolutionary star model simulations with observational data (presented at Garching Interop. meeting 2009);
- VisIVODesktop and VisIVOServer move to a more stable version before be SAMPifing;

Summary of WP6-Theory



SVO developed:

- the First Data Model for astroseismology data:
<http://svo.cab.inta-csic.es/theory/sisms3/concepts.php>
17 star global properties.
44 star shell variables.
35 seismic properties.
- Granada Asteroseismology models(CESAM, CESAM2K, GRACO, FILOU) now in S3
(<http://laeff.inta.es/svo/theory/astrosism/>)
- Synthetic photometry in the VO: Development of the Filter Profile Service (<http://www.laeff.cab.inta-csic.es/projects/svo/theory/filters/>)

Summary of WP6-Theory



- Inside the evolutionary stellar model BaSTI DB is included two new photometric systems:
 - **WCF2 HST** (*Wide Field Planetary Camera 2 system - on board of Hubble Space Telescope*) ;
 - **WCF3 (UVIS) HST** (*Wide Field Camera 3 (UVIS) system - on board of Hubble Space Telescope*);
 - soon will be add White Dwarf (WD) evolutionary models;