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Abstract Text:

The concept for a National Virtual Observatory (NVO) is being realized for astrophysical data sets. A similar need exists for massive large planetary data sets from planetary missions and groundbased observations. Data returned from missions are organized into information data respositories such as the Planetary Data System (PDS) for NASA mission data; Space Telescope Science Institute (STScI) for Hubble Space Telescope (HST) data; SIRTF Science Center (SSC) for SIRTF, and other similar sites. However, no such dedicated repository exists for the terabits of data collected by ground-based observers in support of various missions. Coordination of these data sets and providing analysis tools is necessary to allow the planetary astronomy community access for research and

cross-correlative analysis. Towards this goal, we are developing a prototype suite of algorithms for groundbased data collected by our team in support of NASA''s GALILEO and CASSINI missions to integrate multispectral and multi-instrument data. We have an end-to-end data pipeline from inital data processing to absolute calibration and products in between. Our goal is to develop a knowledge portal for content and an ancillary virtual observatory in support of established planetarty data warehouses.

About the Organiser

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