DM Science Plans S21B retrospective and F21A plans

DMLT vF2F 2021-06-22/23
Leanne Guy

Science Studies

- Host galaxy associations for DIAObjects -- Adopted RFC-695

- Reviewed time series features to compute DM-19592, DMTN-118 - now seeking community feedback.

Verification, Validation, Characterization

- Produced a detailed plan for the implementation of all science KPMs following the SST vF2F in February.

- Faro released added to lsst_distrib -- Faro now runs as a regular part of the daily and weekly builds of the science pipelines.

- Large focus of work in S21B was on implementing KPMs as defined at SST meeting in faro

- CMR for v22.0.0 using faro - in preparation

- Defined a new, HSC dataset for regular testing (RC3) and monitoring that includes features lacking the RC2 dataset.

DPDD, Requirements, Documentation

- Construction papers: Progress on DAX paper, Data facility paper will now include USDF.

- Pre-operations Community Engagement Team has taken on a lot of the documentation work in preparation for DP0.

Community Interactions

- Issued the Call for Letters of Recommendation (LOR) for the LSST Object PZ Data Products.

- Photometric Redshifts for DRP: Completed first series virtual forums on getting input to assessment criteria held. DMTN-049 roadmap updated in response. Started new set of forums in May to support the community in preparing to submit LoR (May)

- Supported the SAC review of the Community Event Broker proposals. Eric, Colin and Spencer are ex-offico were on the review committee. SAC report delivered June 2021 - PST deciding now how to proceed.

- Supported the second LSSTC community broker workshop

- SC liaisons continue

Science Studies

- Photometric redshifts (DMTN-049) continue engagement with community focus on helping community prepare to submit LoRs

- Produce a plan to address the remaining RSP FDR recommendations (9 remaining)

- Detection efficiencies for Difference Images – ongoing – DM-1930

Verification, Validation, Characterization

- Produce plan for verification through end construction mapped to milestones (DMTN-158) (and in preparation for JSR).

- Science Pipelines Version 22.0.0 acceptance testing

- Continue to implement KPMs in faro and run on precursor datasets to characterize performance. Good collaboration with commissioning on this!

- Focus on scaling up performance characterization activities through more regular running on RC2/3 and DC2 datasets

DPDD, Requirements, Documentation

- Highest priority continues to be to match DPDD with what the science pipelines produce.

- Continue work on automation of SDM standardisation through to qserv ingest

- Review of requirements on user computing/batch
  - See discussion at this meeting – Gregory has started a confluence page
  - DM-SST will review and provide concrete recommendations and direction.

- Update to the contents of the alert packets - RFC/ LCR pending

- Reviewed requirements on compressed PVIs – Gregory to submit an RFC

- Construction papers - Plan to get a first draft of the DMS paper

Community Interactions

- Continue with photo-z community forums through to support community in preparing for LoRs

- Community feedback is solicited on time series features to compute

- SC liaisons continue.