



DM Science Plans S21A retrospective and S21B plans

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S21A Retrospective

Science Studies

- Photometric redshifts ([DM-6367](#)) [DMTN-049](#): A Roadmap to Photometric Redshifts for the LSST Object Catalog **issued**.
 - Engagement with community began in February, will continue through commissioning
- Reviewed and gave feedback on [DMTN-165](#): Hybrid Alerts
- Reviewed requirements on compressed PVI's – Gregory to submit an RFC.



S21A Retrospective

Verification and Validation

- Large focus of work in S21A was on the new Gen-3 based metrics computation package, DM-28312 - Expect to release and add to `lsst_distrib` in coming days
- Review of all DMSR KPMS at DM-SST this week
- Science Pipelines Version 21.0.0 acceptance testing – **not carried out, as no new requirements to verify**
- Detailed plans for for verification through end construction started, connection to milestones, test plans, DMTN-158 in progress.



S21A Retrospective

DPDD, Requirements, Documentation

- DMSR / DPDD updates (RFC-709, -710) completed to bring DMSR/DPDD in line with DRP plans.



S21A Retrospective

Community Interactions

- SC liaisons continue
- Supported the SAC review of the Community Event Broker proposals. Eric, Colin and Spencer are ex-officio on the review committee
- Pre-operations Community Engagement team picking up a lot of the community interaction work especially around DP0
- Support for stack-club has ceased due to Focus Friday. This has impacted stack-club.
- Supported the DESC collaboration meeting Feb 2021



S21B Plans

Science Studies

- Focus on engagement with community to define photometric redshifts for the DR catalog as per [DMTN-049](#)
- Host galaxy associations for DIAObjects – pick this up - [DM-23683](#), [RFC-695](#)
- Time series features to compute – ongoing – [DM-19592](#)
- Detection efficiencies for Difference Images – ongoing – [DM-19308](#)



S21B Plans

Verification and Validation

- Definition of all DMSR KPMs and implementation in faro
- Define the test plan for the RSP service of data, resulting in an end-to-end test exercising the flow from data processing to RSP release, LDM-503-14a - Gregory
- Science Pipelines Version 22.0.0 acceptance testing
- Complete plans for DM verification completion, through end of construction.



S21B Plans

DPDD, Requirements, Documentation

- Highest priority is to match DPDD with what the science pipelines produce.
- Continue work on automation of SDM standardisation through to qserv ingest
- Construction papers



S21B Plans

Community Interactions

- SC liaisons continue
- Hand over responsibility for community platform to pre-operations Community Engagement team
- Continue to support the SAC review of Community Event Brokers
- Continue with [photo-z community forums](#) through March, April to refine evaluation criteria for photo-z estimators.
- Second community-organized LSST enabling science 2020 broker workshop, 13,14, 15 April 2021