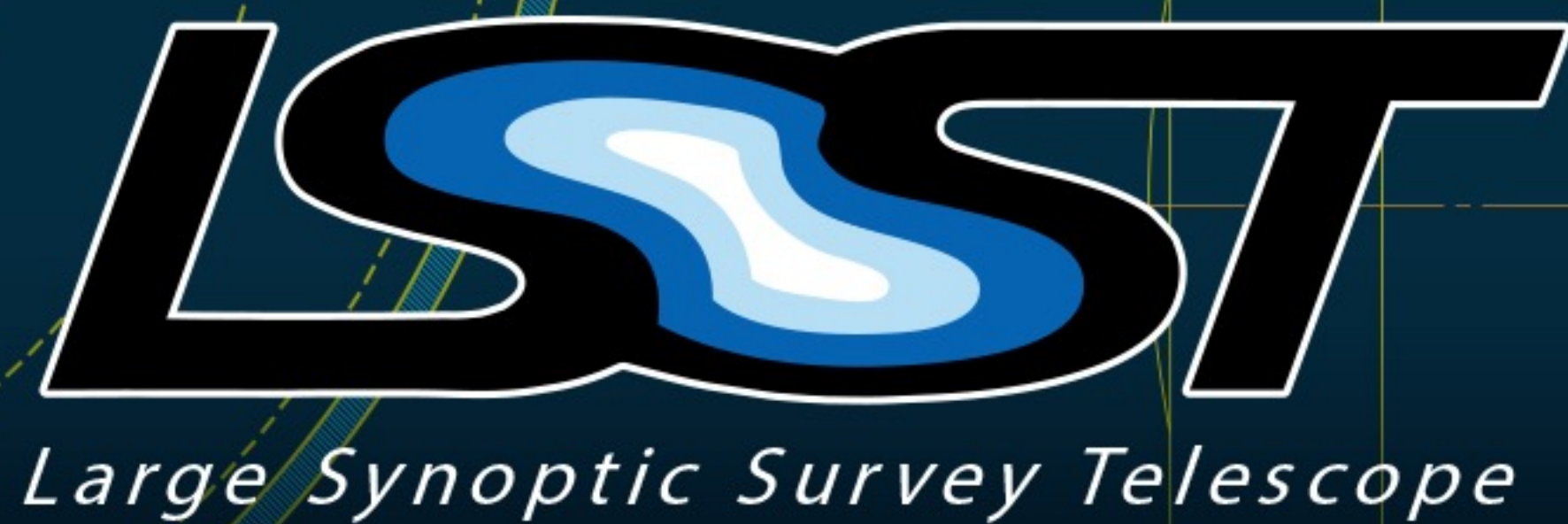


# Status of QA Tooling

John Swinbank





## Define “QA”

- Quality.... Analysis? Assurance? Control?
- For this purpose: an holistic approach, covering all activities undertaken by the DM subsystem to ensure the satisfactory quality of the ultimate LSST data products.



# The QA Working Group

- Convened in mid-2018
- Charge LDM-622
- The charge explicitly excluded the needs of commissioning or science validation
- Concluded in early 2019
- Report DMTN-085
- 40 numbered recommendations (each with a QAWG-REC-NNN identifier)
- Recommendations were made to the DM Leadership Team
- The WG itself neither carries out the work nor assigns people to do so!
- <https://confluence.lsstcorp.org/display/DM/DMLT+Discussion+of+QAWG+recommendations#/>



# Recommendations

- Wide ranging!
- Major themes include:
  - Enhanced capabilities for tracking high-level summary “metrics” describing processing.
  - Interactive capability to “drill down” from high-level metrics to find the source of problems.
  - The lack of a unified story on image display tooling.
  - Various others, including documentation, testable example code, coherent test data packages, better tooling for debugging...



## This session

- Showcase the various ways that DM is responding to the QAWG recommendations.
- Initial results from the Image Display Working Group (Yusra; 10+10 minutes)
- “Drill down” tooling demo (Lauren & Yusra; 15+10 minutes)
- New features and future plans for SQuaSH (Angelo & Simon; 10+10 minutes)
- Collecting metrics from pipeline processing (Krzysztof; 10+10 minutes)
- Plenty of time for discussion: please pitch in with questions!
- Should note that some QAWG recs are being addressed by DM that we won't be covering here... in particular, I am excited about <https://sqr-032.lsst.io>!