

DM Science Plans F19

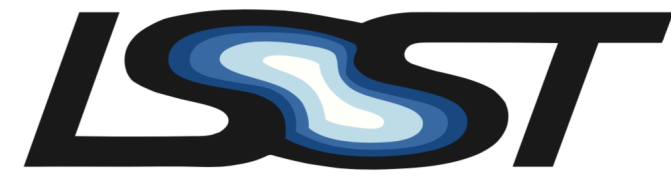
Leanne Guy, LSST Data Management Scientist

June 2019



Large Synoptic Survey Telescope

Workshops/Reviews/Conferences



Community Broker Workshop

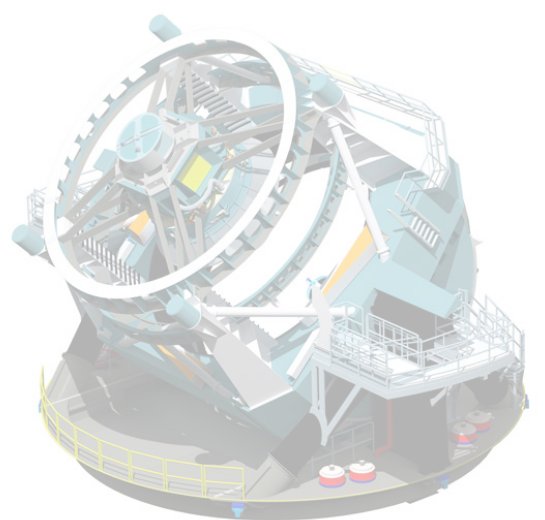
- ls.st/cbw, Seattle, WA 19-21 June 2019
- 15 LOI + 3 LONI (letter of non-intent)
- SOC: Leanne, Eric, Melissa

Algorithms Workshop

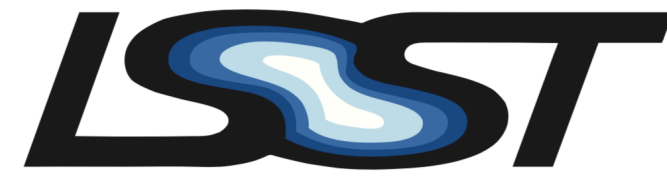
- 2-4 December 2019, somewhere in the Princeton area
- Several baseline documents covering algorithms will be reviewed and updated
- SOC: Leanne, Colin, Jim, Robert L, Eric

Follow-up from the LSP Review

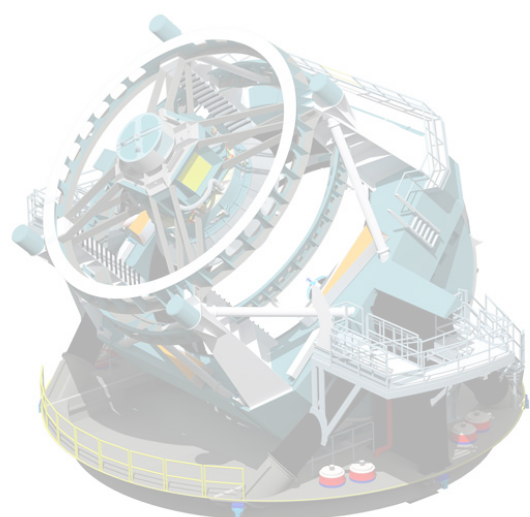
- A lot of work over F19, will be led by Gregory, with Colin & Simon



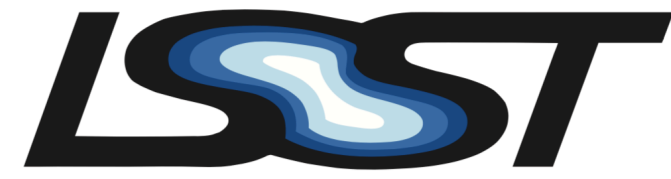
Community Interactions



- Project representation at several conferences and workshops
- Liaison to Science Collaborations
 - Leanne, Colin, Robert L, Jim, Eric, Melissa, *Zeljko, Mario*
 - <https://confluence.lsstcorp.org/display/DM/DM-Community+Communications>
- Liaison to Project subsystems
 - EPO: Melissa
 - Commissioning: Simon
- Stack-club
 - All SST on a rotating fortnightly basis attend and support stack-club
- A lot of community interactions are emergent: sst-community-f19



Planned Science Studies



Variability Characterization Parameters in the DIA/Object Catalog

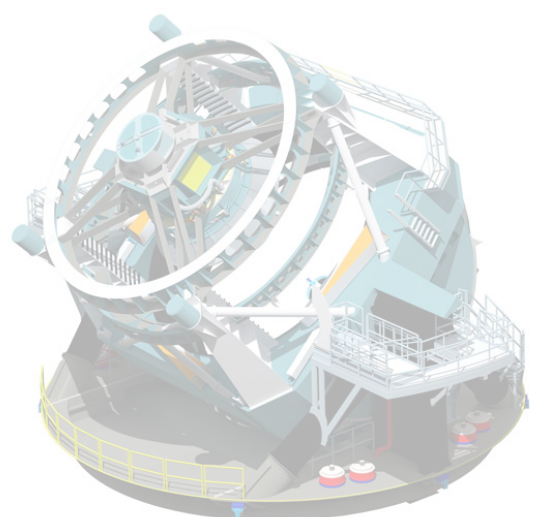
- Put together a proposal on what and use this to solicit feedback from the science collaborations
- Lead: Melissa & Eric

Crowded fields

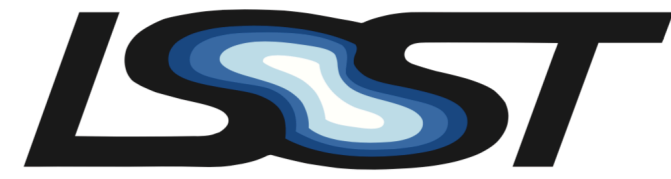
- PST has asked the DM-SST to identify resources and put a plan in place to improve the performance of LSST science pipelines in crowded fields: [PST-77](#)
- Lead: Colin

Detection efficiencies for Difference Images

- Lead: Melissa



Verification & Validation



Strong focus on increasing verification and validation activities in collaboration with Commissioning

- Michael Wood-Vasey, current DM V&V Scientist stepping down end July 2019
- Jeff Carlin extended for another year
 - Will focus on analysis of requirements and development of test cases/specifications working science leads and commissioning
- Open position for DM Validation Scientist
 - Currently interviewing expect to have new team member onboard later this year
 - Will focus on implementing tests cases, scientific validation
- David Monet will be coming onboard at a 20% level, working with DM V&V and Commissioning on verification of the astrometry

