

The background of the slide is a dark blue technical drawing or blueprint. It features various geometric shapes, including circles, arcs, and lines, rendered in a lighter blue and yellowish-green color. The drawing appears to be a cross-section or a detailed view of a complex mechanical or structural component, possibly related to the Large Synoptic Survey Telescope (LSST).

# Data Release Production Plans: S20 (Mar, Apr, May)

Yusra AlSayyad – DMLT F2F – October 30 2019

The logo for the Large Synoptic Survey Telescope (LSST). It consists of the letters 'LSST' in a bold, stylized font. The 'L' and 'S' are black with a white outline, while the 'S' and 'T' are filled with a blue gradient. The 'S' has a white highlight on its upper curve.

**LSST**

*Large Synoptic Survey Telescope*

# What happened in Nov, Dec, Jan, Feb?



- DM Bootcamp Nov 12/13/14
- Saunders, Kannawadi, and Kelvin ramping up
  - Incorporate morphological satellite trail detection
  - Investigate reported PSF-model discrepancies in Warps
  - Mitigate sky background offsets
- Morgan Schmitz started January 1st
- Scarlet 1.0
- Investigate jointcal performance scaling

# What happened in Nov, Dec, Jan, Feb?




- So much investigation of ISR --> background offsets
- Commissioning FGCM for
  - HSC PDR3 (S20) and
  - LSST reprocessing of PDR2
- Sprints:
  - Deblender analysis with fakes
  - Convert pipe\_analysis gen3 ☹️
  - All-hands pre-workshop data analysis sprint (sprint demo tomorrow)

# What happened in Nov, Dec, Jan, Feb?





- Gen3
  - Pipeline yaml specification
  - Registry refactorization for stabilization and speed
  - Basic quantum graph generation for FGCM and jointcal
  - Start of conversion of pipe\_analysis, postprocessing, and coordination with AP


Branch: master ▾ [pipe\\_tasks](#) / [pipelines](#) /


 **natelust** Add pipeline definitions


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 [Coaddition.yaml](#)

 [DataReleaseProduction.yaml](#)

 [Forced.yaml](#)

 [Multiband.yaml](#)

 [ProcessCcd.yaml](#)

Dat

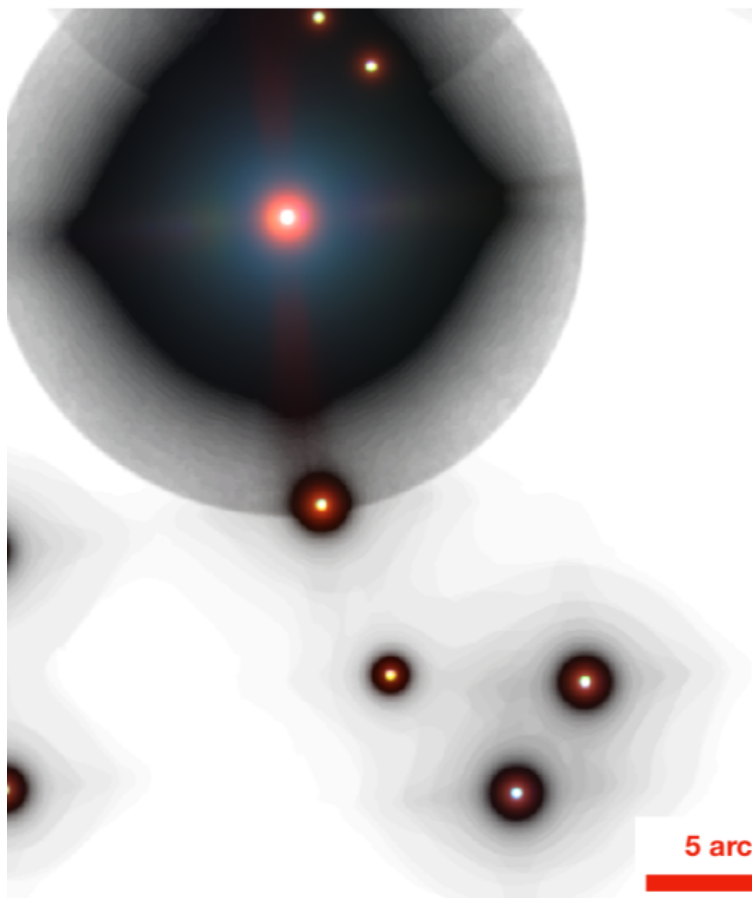
# DRP Activities for S20b (1 of 4)



Algorithms Workshop Prep Until  
March 19 (everyone)  
Science Pipelines all-hands March 20  
(everyone)

## Background Estimation picking up:

- Amp-to-amp ccd-to-ccd offset mitigation (Kelvin, Rykoff)
- Wings of bright stars (Schmitz + Infante-Sainz visiting March 1-20)



Infante-Sainz: Wings of Bright Stars (aka extended PSFs)

# DRP Activities for S20b (2 of 4)



## Toward next Gen3 milestone

- Feature parity with Gen 2 (Bosch, Lust)
  - Commandlines for repo admin
  - Quantum graph generation (Lust)
  - gen3 /datasets multiuser registry (Bosch)
  - Finish converting pipe\_analysis (w/ Reed/MacArthur)
  - Finish converting sdm-ification tasks to gen3 (AISayyad)

## ISR and Calibration Products (Waters)

# DRP Activities for S20b (3 of 4)



## Ongoing QA Activities

- Likely hacking with AstroPy devs week of May 11 on AstroWidgets (Waters, Lust)
- Add Metrics from fakes into lsst.verify/squash (Reed)
- Continuation of QA drill down tooling described in QAWG Morton (15-20% FTE) + Quansight
- + QA from the next full HSC data release
- Deblender + Galaxy Photometry have had QA focus

Completeness/Depth from fakes (Reed)

