



Science Pipelines F18 Plans Key Milestones Major Science Pipelines milestone targets are: LDM-503-08: Spectrograph Data Acquisition LDM-503-09: Ops rehearsal for commissioning #1



LDM-503-08: Spectrograph Data Acquisition

- Primary spectrograph-relevant deliverable is the AuxTel spectrophotometric science pipeline payload.
- Schedule:
 - Working algorithms by late summer.
 - "Stackification" starting October 2018.
 - Complete pipeline in stack framework (ie, Gen 3 middleware) January 2019.
- Includes production of e.g. appropriate camera (obs) package supporting AuxTel.



LDM-503-08: Spectrograph Data Acquisition

- There are 14 pipelines L3 milestones relevant for this L2 milestone.
 - Refer to LDM-564 for details.
- Highlights include:
 - Jointcal operational in data release pipelines.
 - Brighter-fatter effect correction.
 - Full focal plane background & PSF estimation.
 - Initial multi-band deblending algorithm (ie, Scarlet deployed in the DRP system)
 - Coordinate transform tool for the CBP.
- We are on schedule to deliver ~all of these milestones.
 - But the Pipelines Science Leads & T/CAMs still have to flesh out the details of some of them.
 - And there are some, e.g. optical ghost model, which we might reconsider.



Other Work: Alert Production

- Ongoing activities in the AP group which do not target a scheduled milestone in late
 2018:
 - Pressing to ramp up the end-to-end AP processing, including:
 - A larger variety of bigger, more heterogeneous datasets
 - Increasingly paying attention to the scientific quality of outputs
 - Continued work on the alert distribution system, likely focusing on filtering
 - Onboarding the new image differencing specialist, and returning focus to diffim algorithm development & implementation



Other Work: Data Release Production

- Ongoing activities in the DRP group which do not target a scheduled milestone in late 2018:
 - Likely continued involvement in middleware development, details TBC
 - Galaxy model fitting
 - Continue work on SRD-grade shear measurement on coadds
 - Considering deeper integration of new deblender outputs into measurement system
 - Collimated beam projector data processing