

Notes on 2014 workshop.

Objectives:

"....focus was on deriving merit functions that quantify the performance of model LSST cadences for specific science areas."

Preparation:

Selection of breakout leads

Telecons with leads to plan breakout activities

MAF team prepares and supports MAF distribution and materials for preworkshop study

Day 0.

Metrics Analysis Framework (MAF) half-day introduced ~50 people to MAF.

Day 1.

Plenary sessions began with ~3 hours of slide presentations on LSST, scheduling, the simulator, cadence issues, and breakout session plans.

Day 1-3.

During 1.5 days, attendees participated in their choice of multiple breakout sessions:

- Static science (M. Strauss, T. Tyson)
 - Large scale structure (Hu Zhan)
 - Weak lensing (Deborah Bard)
 - Stellar populations (Carl Grillmair)
 - Evolution of galaxies (TBD)
- Transient and variable science (S. Howell)
 - Astrometry (J. Gizis, M. Liu)
 - Fast T&V (L. Walkowicz, M. Kasliwal)
 - Slow T&V (A. Mahabal, J. Thorstensen)
 - Supernovae (M. Wood-Vasey, A. Kim)
 - Moving objects (L. Allen, E. Christensen)
- Main survey: optimization and thinking outside the box (Z. Ivezić)
 - Synthesizing main-survey cadence for transients and variables
 - Rolling cadence vs uniform sampling, and other ideas for addressing multiple objectives
 - First survey year
 - Alternate approaches to schedule optimization
 - Questioning assumptions; overlooked issues.
- Mini-survey cadences
 - Bulge and plane (W. Clarkson)
 - Magellanic Clouds (K. Vivas)
 - Commissioning observing program (C. Claver)
 - Additional topics invited
- MAF hack session

Day 3.

Breakout leads reported to the workshop plenary.

Day 4.

Workshop organizers reported to LSST All-Hands plenary

Post-workshop:

Speakers and breakout leads provided chapters (text or slides).

Organizers assembled workshop summary report.

Perspective -**Successes:**

- Large turnout

- Energetic leads

- Excellent breakout discussions

- Community eager for follow-on workshops and participation in cadence design

- Several merit functions for T&V, spatial power spectrum demonstrated (some in MAF)

Disappointments:

- Limited contribution to merit function development during workshop or after

Uncertain:

- Self-organizing in community to continue metric development

Meeting home page: <https://project.lsst.org/meetings/ocw/>

Agenda and report linked from there