

# Geneva DPS 2019 LSST Splinter Meeting

An ad-hoc page for town-hall planning. Unless otherwise specified, everything here is considered a draft.

## When and Who

**When:** Thursday 19 September 2019, 13:30-15:00 CEST

**Where:** [Room 14, CICG](#), the "theatre style" setup, 70 seats. Projectors and laptop connection provided.

**Goal:** Raise awareness of the LSST, what it will deliver, how soon it's coming, and what it can do for small-bodies science.

### People on-hand:

- [Ranpal Gill](#) : LSST Overview and Status Talk
- [Mario Juric](#) : Solar System Data and Science Talk
- Meg Schwamb: Collaboration Talk
- [Joachim Moeyens](#): Logistics, software posters
- Dave Trilling (SSSC)
- Heidi Hammel (AURA)

**Title:** Getting Ready for LSST: 5+ million small bodies, 1+ billion observations

**Abstract:** The Large Synoptic Survey Telescope (LSST; <http://lsst.org>) is an 8-meter, wide-field, ground-based survey program that will survey half the sky every few nights in six optical bands from 320 to 1050 nm. The LSST telescope is currently being constructed at Cerro Pachón, Chile, with first light expected in 2020 and start of survey operations in 2022. The LSST is slated to make a significant contribution to the study of the Solar System, delivering over a billion highly precise observations of millions of Solar System objects (5mmag photometry and 10mas astrometry, per observation, at the bright end). Current estimates show yields ranging from ~100,000 new discoveries of nearby NEOs, to 5.5 million for the main belt, and ~40,000 for KBO populations. The majority of these objects will receive hundreds of observations in multiple bandpasses. This dataset presents tremendous opportunities for Solar System science. This meeting will overview the science possibilities, report on project status and expected data products, and discuss how to get involved in preparations for science with LSST.

## Actions

- ✓ Mario Juric to compile a list of project people who will be in Geneva, assign the talks accordingly
- ✓ Mario Juric to confirm with Ranpal Gill that we're not doing a booth? - *No booth*
- ✓ Ranpal Gill to get info on what AV equipment will be available for the meeting *Projector and connection for laptop are provided*
- ✓ Ranpal Gill to see if we can be re-scheduled in a room with higher occupancy (75 attendees). *Room info [here](#) - will be in theatre style >60 capacity*
- ✓ Meg Schwamb to reach out to Colin Snodgrass about giving a talk
- ✓ Meg Schwamb to advertise the meeting in small-bodies mailing lists
- ✓ Ranpal Gill Do we have any "LSST summit rocks" remaining to give out to people who ask questions and/or otherwise participate? *But I would limit to first 10 questions?*

Related JIRA ticket: [COMT-175956](#).

## Draft Agenda

Points we need to communicate:

1. Introduce the LSST to the planetary science audience, with emphasis on how quickly it's coming
2. Illustrate LSST's potential in enabling Solar System science
3. Discuss what LSST will deliver to enable solar system science (the data products)
4. Illustrate possibilities for first science with commissioning data (whether this is possible depends on discussions we have in Tucson).
5. Explain how to get involved through the science collaboration.

Agenda:

Topic (catchy titles TBD)	Speaker	Time	Description
Brief welcome	Mario	1	Introduce the session and the 1st speaker
Overall project introduction and status	Ranpal	10+0	Introduce the LSST, its status, and the availability of data (aim for ~1 slide about data rights, focus on present state, not history – most of these folks won't know or care about the history; those who do can ask questions).
Solar System data products and science	Mario	14+10	Discuss what LSST will be able to do for Solar System science, and the available data products. <u>Question time is meant to cover both preceding talks.</u>

LSST Science Collaboration	Meg	10+5	Introduce the SSSC and how to get involved.
Comet Interceptor and Euclid synergies with LSST	Colin Snodgrass	15+5	Invited speaker who will illustrate some Solar System science enabled by LSST, and the synergies with other missions (especially Europe-based ones).
Early science commissioning data	Mario	10+10	The potential for early science with commissioning data, and how to get involved.

## Flyers/Swag/etc.

- Pull up LSST signage banner should be on display in the room for the talk
- We have ~10 "LSST rocks" we can give out to people who ask questions and/or otherwise participate.
- What flyers to we need?  
<http://lsst-sssc.github.io/Files/LSST-InterstellarObjects.pdf>  
<http://lsst-sssc.github.io/Files/LSSTPlanetbeyondNeptune.pdf>  
[http://lsst-sssc.github.io/Files/LSSTactive\\_asteroids.pdf](http://lsst-sssc.github.io/Files/LSSTactive_asteroids.pdf)  
<https://docushare.lsst.org/docushare/dsweb/Get/Document-29545>

## Logistics

- Ranpal (from Tucson)
  - Bring LSST rocks
  - Bring LSST banners
- Mario?
- Joachim?