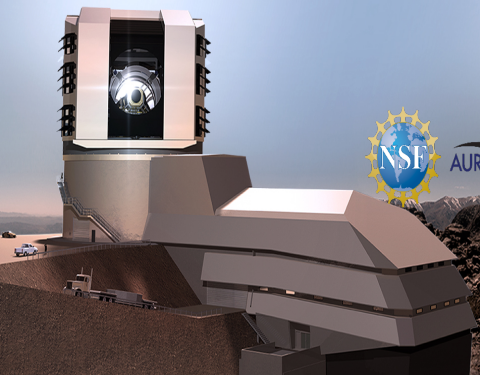
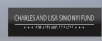
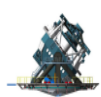


Rubin, DESC and LSST France updates CPPM, Marseille

J. Bregeon, CNRS/IN2P3/LPSC

June 10, 2024





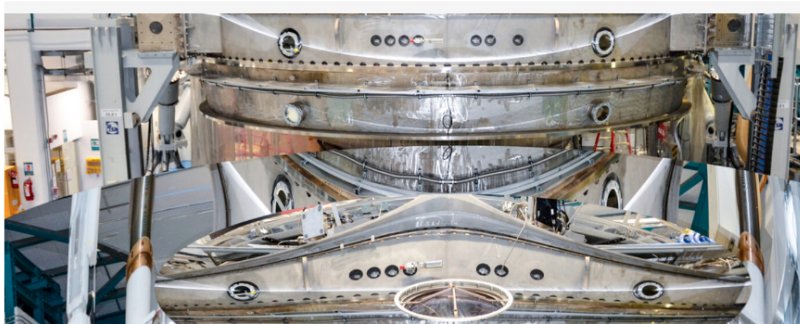
- 1 Rubin project news
- 2 DESC updates
- 3 Rubin–LSST France



- Telescope Mount Assembly dynamic tests (Andrea Jérémy's talk on Wednesday)
- M1M3 Mirror cell coating
- Camera : work at SLAC in February, then trip to Chile
- EFD data base
- SCOC : publication and <https://survey-strategy.lsst.io/>



- Cleaning and silver coating in a huge chamber
 - <https://rubinobservatory.org/news/coating-primary-mirror>



Rubin Observatory Achieves Another Major Milestone: Reflective Coating of the 8.4-Meter Primary/Tertiary Mirror

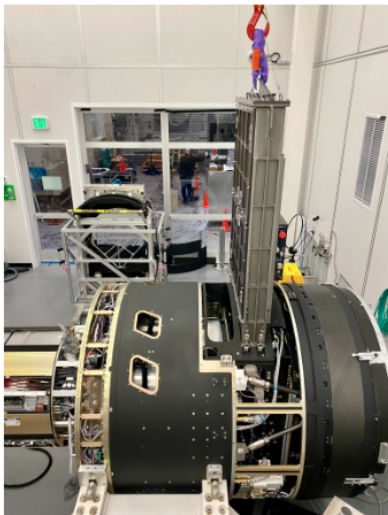
April 30, 2024

[**Explore more images and video**](#)

Media



- Filter Loader tests @ SLAC in February 2024





- Filter Exchange System tests @ SLAC in February 2024

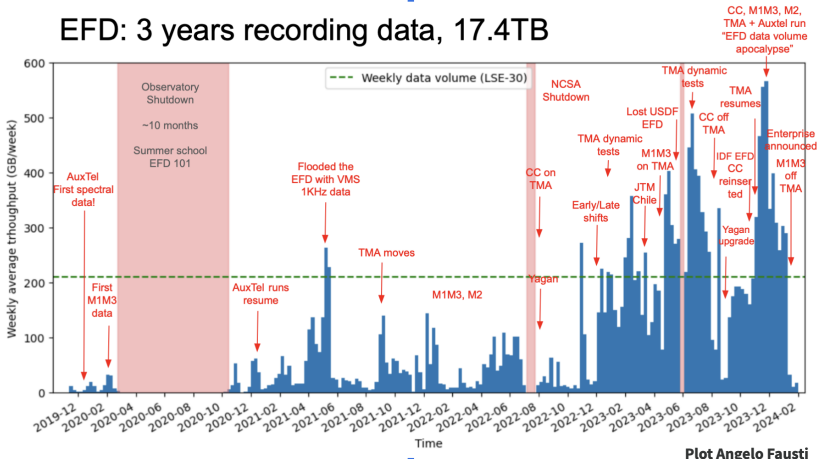


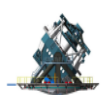
- Major operations from the French teams (APC, CPPM, LPSC, LPNHE)
- Camera sent to Chile - see Thibault's talk



- A. Fausti presentation at Rubin Joint Technical Meeting (JTM) at SLAC in February 2024

EFD: 3 years recording data, 17.4TB

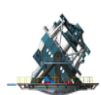




– Major milestones

- 12-Jun-2024 M2 Glass Installed
- 05-Jul-2024 ComCam Installed on TMA
- 31-Jul-2024 M1M3 Glass on TMA
- 01-Aug-2024 ComCam First Photon
- 02-Oct-2024 ComCam off TMA
- 14-Nov-2024 LSSTCam on TMA
- 08-Jan-2025 Rubin First Photon
- 31-Mar-2025 Rubin First Light
- 26-Jun-2025 Rubin Operations Readiness Review





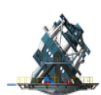
- June 16-21 SPIE Astronomical Telescopes & Instrumentation Meeting, Yokohama, Japan
- June 17-18 or June 20-21 DPO Rubin Data Academy, virtual
- July 8-12 **DESC Collaboration Meeting**, ETH Zurich, Switzerland
- July 22-25 Catching Supermassive Black Holes with Rubin-LSST, Turin, Italy
- July 22-26 **Rubin Community Workshop** (formerly PCW), SLAC Menlo Park, CA
- September 16-20 **@Europe6**, La Palma, Canary Islands
- November 10-14 Astronomical Data Analysis Software & Systems (ADASS), Malta





- Online Meeting DESC 26-29 February 2024
 - parallel sessions on early science and commissioning on-sky
 - discussions on DESC computing
 - Recent "new" responsibilities
 - Céline Combet member of the Operations Committee
 - Sylvie Dagoret co-chair du nouveau groupe Pixel-to-Object (rotating)
 - Cyrille Doux co-chair du Large Scale Structure and Weak Lensing working group
 - Marina Ricci co-chair of the Collaboration Council
- let's keep high our investment in DESC
- Early science in DESC (call, looking for volunteers)
 - DESC Zurich meeting, July 8-12





- discussions on whether or not to define a set of DESC early science papers
 - how to ensure that the early science analyses do not detract from development of pipelines for the Y1 analyses (DR2)
 - how to support our publication process for early science papers
 - how to manage potential conflicts, competing papers, consistency or results and methods
 - the messaging we send to the broader DESC members re: our plan for Early Science
- ⇒ call for volunteers to join this group who will develop guidance over a short timescale (by the end of 2024)



– Ask for DESC **Full** membership! (confluence)

Full Membership Application

Created by Andrei Nomerotski, last modified by Mariana Penna-Lima on Oct 25, 2023

What does Full Membership mean?

LSST DESC Full Members have all the rights of DESC Members, but in addition and according to the [DESC Membership Policy](#) they "are eligible to vote in the Spokesperson and Collaboration Council elections and to be nominated to stand as candidates in these elections"

Full Members are granted specific authorship rights in the [DESC Publication Policy](#), and are eligible to vote in the Spokesperson and Collaboration Council elections and to be nominated to stand as candidates in these elections. It is the Full Members who therefore choose the direction and shape the culture of the collaboration, through the DESC's elected officers and policies.

The LSST DESC Full Membership criteria are described in the [DESC Membership Policy](#) –

Only Members who have LSST data rights can apply for Full Membership. The following criteria are considered in granting Full Membership:

1. *Demonstrated previous engagement with the DESC via participation in collaboration and working groups meetings, relevant publications, presentations, software contributions, and/or community service effort.*
2. *The relevance and importance of the proposed research or technical task(s) to the DESC, or the necessity of more effort on ongoing or planned task(s) within DESC.*
3. *The level of ongoing and proposed time commitment relevant to the DESC – generally expected to be a significant fraction of research time over a period of several years. Collaboration service counts toward time commitment level. Contributions to Rubin Observatory may also count toward time commitment level if criteria (1) and (2) are both satisfied.*

This page details the application process. This page is maintained by the [Membership Committee](#) and the [Collaboration Council](#).

Applying for Full Membership

Applications for Full Member status are welcome at any time. Faculty and full-time staff scientists may apply for Full Membership soon after they think they fulfill the above criteria. They may also describe involvement of their students and postdocs in their applications to demonstrate engagement. Postdoctoral researchers and graduate students should apply for Full Membership independently. The applicant should submit the following materials to the Membership Committee. Submission email: lsst-desc-mc-submit@slac.stanford.edu.





- Organizational chart
- Equity, Diversity, Inclusion and Mediation (EDIM)
 - new committee in place since last week!
 - see Gabriele's talk
- Meeting of the science coordinators in May
 - Work on Computing for science data analysis
 - High level commissioning
- Update of the official PIs list - 22/04/2024
- Welcome to new colleagues from INSU
- Communication - see Gaëlle's talk
- Conference and publications

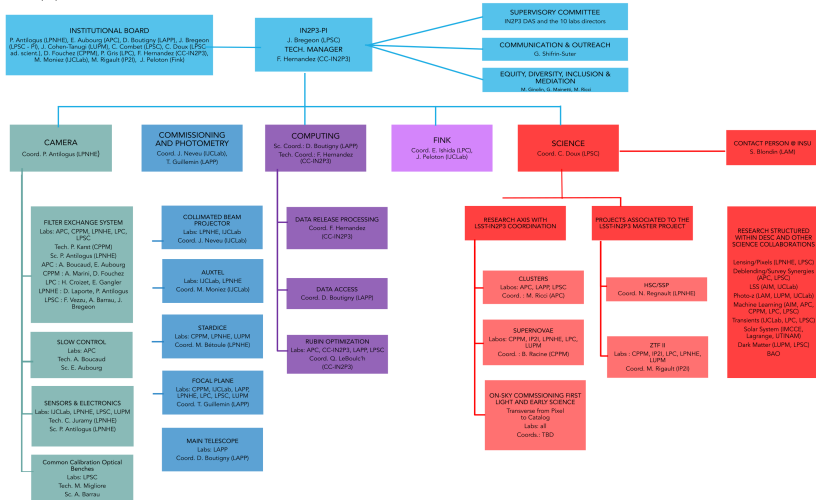


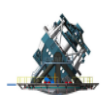


Rubin-LSST France organizational chart

MANAGEMENT COLLABORATION RUBIN LSST FRANCE

06/09/24





- INSU organized a call for people interested in joining LSST
 - projects presented to the Programme Nationaux
 - 2 new colleagues just joined LSST!
 - Roya Mohayaee (IAP)
 - Rodrigo Ibata (Observatoire de Strasbourg)
- Welcome!



Pierre Antilogus (CNRS) : La plus grande caméra astronomique du monde - 10/04

L'INVITÉ

LA PLUS GRANDE CAMÉRA ASTRONOMIQUE DU MONDE

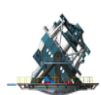
Environnement Les Etats-Unis instaurent des seuils limites aux "polluants éternels" dans l'eau courante.

DOW JONES 38 412,52^{pts} -1,27%
INTEL CORP 37,04^{\$} -3,35%

CE SOIR 22.00
TALENTS...
Présenté par **LAURE CLOISER**

Pierre Antilogus (CNRS) : La plus grande caméra astronomique du monde - 10/04

Ce mercredi 10 avril, Pierre Antilogus, directeur de recherche au CNRS, responsable scientifique de la...
Voir plus



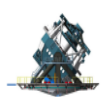
- “Design and performance of a collimated beam projector for telescope transmission measurement using a broad-band light source” K. Sommer (PhD, LUPM) - January 2024 - arXiv:2312.02835
- “Combined spin orientation and phase function of asteroids” B. Carry (INSU), J. Peloton (IN2P3) et al. - March 2024 - arXiv:2403.20179
- "A Cohesive Deep Drilling Field Strategy for LSST Cosmology" P. Gris et al, May 2024, arXiv:2405.10781
 - important DESC work, contribution to project discussions to cadence definition





– Thanks for the strong participation to the Moriond conference

Title, journal and reference	Corresponding authors	Main Author IN2P3	PhD/Postdoc
2024			
On the importance of Earth's atmosphere for SNIa precision cosmology	J.Neveu	yes	
DR2.5 - Precision supernova photometry with the Zwicky Transient Facility	L.Lacroix	yes	PhD
How the StarDICE photometric calibration of standard stars can improve cosmological constraints?	T.Souverin	yes	PhD
Development of an unbiased cosmic shear estimator using galaxy images second moments	E. Van den Abeele	yes	PhD
Cluster Finders: The DESC Collection	R.Solomon	yes	Pdoc
Impact of blending on weak lensing measurements with Rubin-LSST	M. Ramel	yes	PhD
Search for orphan gamma-ray burst afterglows in Rubin LSST data with the Alert Broker Fink	M. Masson	yes	PhD
DR2 - 3000 SNeIa from ZTF	M. Ginolin	yes	PhD



Conclusions

- Thanks all for your hard work
- Let's have a productive meeting, talking about Euclid synergies, pixel level commissioning, high level commissioning and more. . .
- Rubin Operations to start within a year!

