



# Rubin, DESC and LSST-France news

Responsable scientifique : Johan Bregeon (LPSC)

Responsable technique : Fabio Hernandez (CC-IN2P3)

11/06/2025



# Content



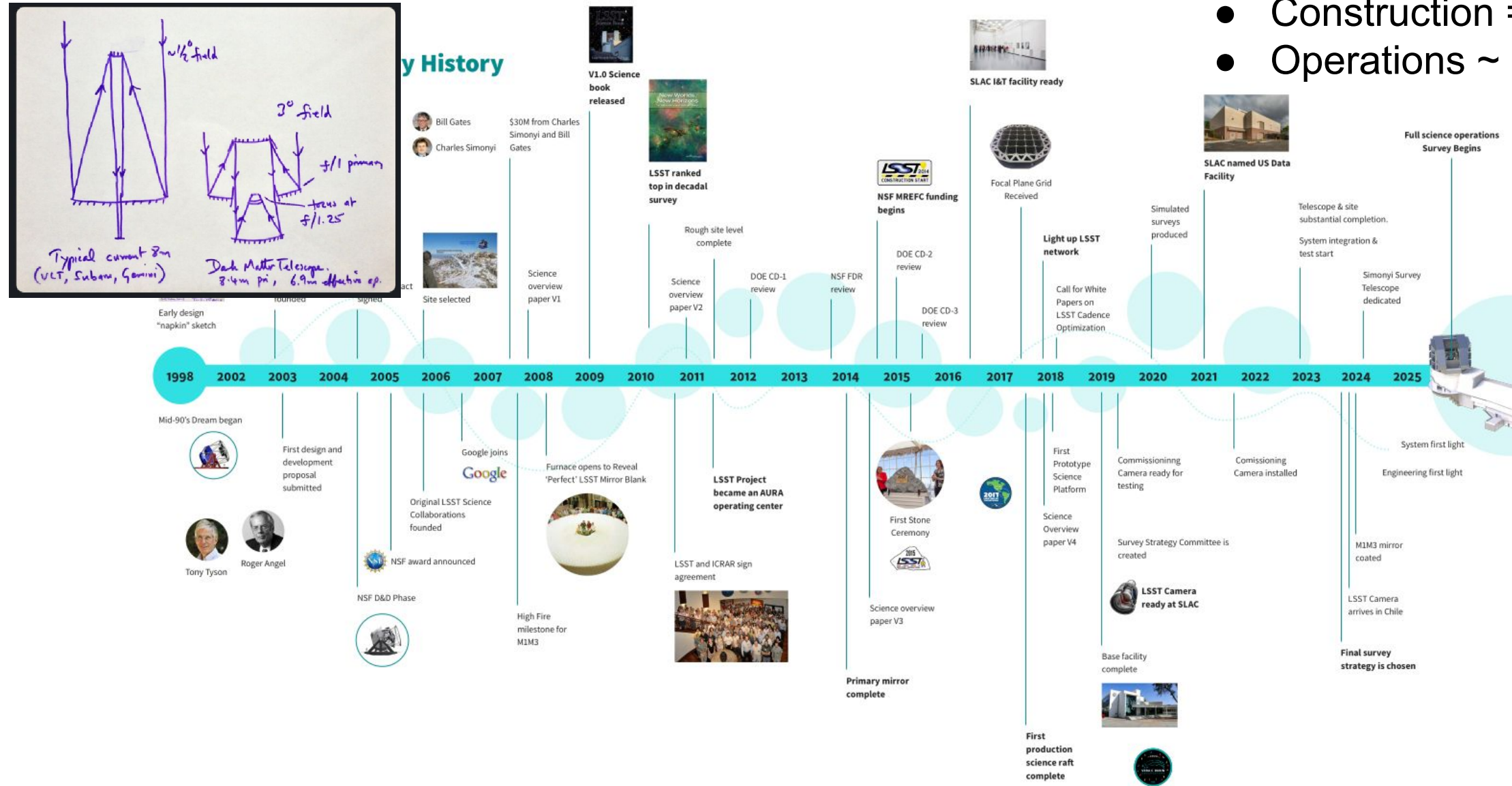
- First light
- DP1
- Calendar
- Transition from construction to operations
- DESC
- Communication
- Chaos and forward
- In the following talks : EDI, Computing and Commissioning news
  - FINK tomorrow!



# From LSST to Rubin: a 25 years story

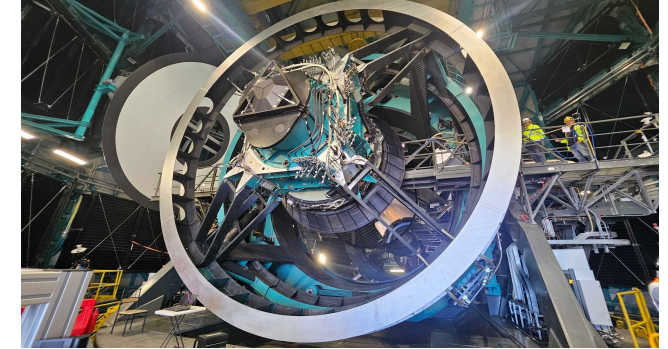
## Budget

- Construction = 570 M\$
- Operations ~ 70 M\$/an





# 2025: First light on April 15th 2025!





# 2025: First Light - embargo



## **Coming June 23, 2025: First Look at the cosmos with NSF-DOE Vera C. Rubin Observatory**

Get ready to join us virtually around the world on **June 23, 2025 at 11:00 a.m. US EDT** as we unveil the first spectacular images from NSF-DOE Vera C. Rubin Observatory! This First Look event will be live streamed via Youtube in English and in Spanish — links will be made available here and via social media. Join us to celebrate the start of a new era in astronomy and astrophysics with the world's newest and most powerful [survey telescope](#).

# Calendar and data releases - [RTN-011](#)

Rubin Operations Survey and Data Release Timeline																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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# Key dates

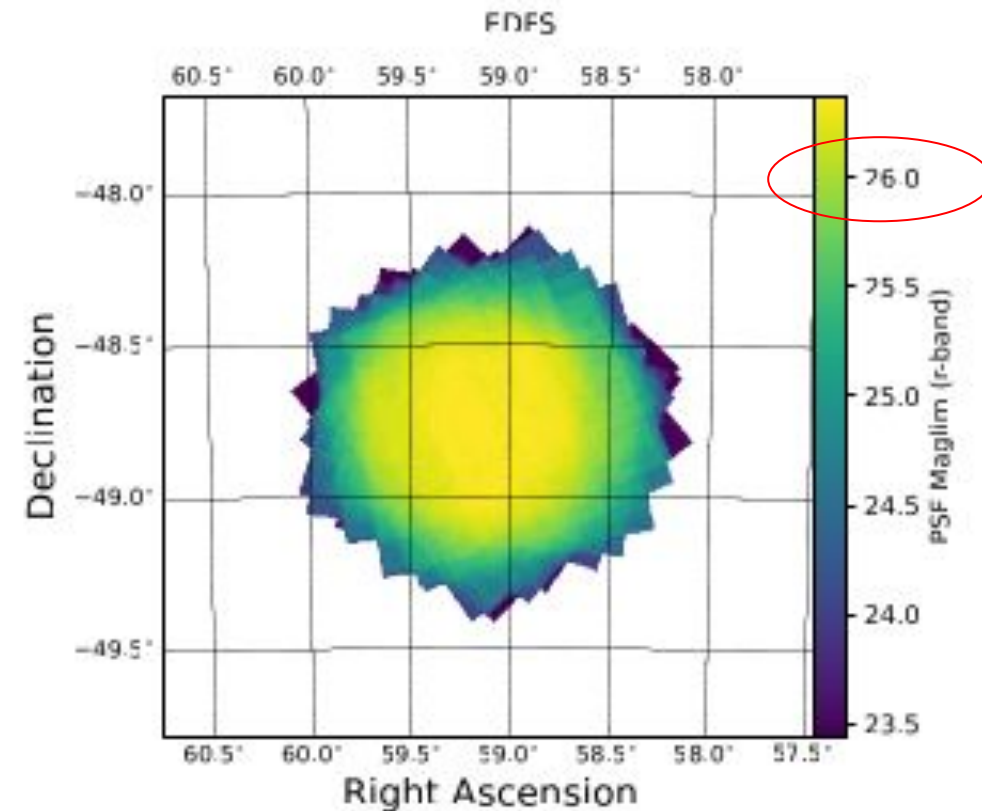


- June 23rd : First light watch party press conference
- June 30th : ComCam DP1 data release
- July 18th - 25th : Construction Completeness Review + Operations Readiness Review
- October : start of operations
- **November : start of the LSST!**
- Spring 2026 : official inauguration of the Observatory
- May 2026 : DP2 LSSTCam commissioning data release
- November 2027 : DR2 = 1 year of LSST data

# DP1 ComCam data release - June 30th

Target	u	g	r	i	z	y
47 Tuc	6	10	33	19	0	5
Rubin SV 38 7	0	44	55	57	27	0
Fornax dSph	0	5	26	13	0	0
EDFS	53	230	257	177	177	30
EDFS ComCam	20	61	90	42	42	20
Rubin SV 95 -25	33	86	97	29	60	11
Seagull	10	37	49	3	13	0

- Plenty of data to play with already!
- Transient object table included
- Available to all PIs on June 30th



(e) EDFS



# Transition from Construction to Operations



- Two different projects from the point of view of funding agencies (NSF, DOE)
  - new separate budget
  - “different” people : a significant fraction of people involved in the construction will not be involved in operations
- Construction Completeness Review + Operations Readiness Review in July in La Serena
  - we have 2 sits as “observers” to these reviews
  - Operations project expected to start in October
- IN2P3 is involved in Operations
  - Computing: Data Release Processing @ CC-IN2P3 (40% of the data)
  - Maintenance: autochanger, loader, software
  - Camera expertise

# Rubin Operations

- Refinement of our contributions to operations = **Staffing plan**

2.7b.3	Summit Operations	Camera		Camera Engineer - IN2P3	Responsible for tr	Breugnon, Patrick		Lange, Travis	IN2P3	Initial conversat	Staff elec. engineer at CCPM			0.10	0.10	0.10
2.7b.3	Summit Operations	Camera		Camera Engineer - IN2P3	Responsible for tr	Karst, Pierre		Lange, Travis	IN2P3	Initial conversat	Staff Mecanical engineer at			0.10	0.10	0.10
2.7b.3	Summit Operations	Camera		Camera Engineer - IN2P3	Responsible for tr	Marini, Aurelien		Lange, Travis	IN2P3	Initial conversat	Staff Mecanical engineer at			0.10	0.10	0.10
2.7b.3	Summit Operations	Camera		Camera Engineer - IN2P3	Responsible for tr	Daubard, Guillaume		Lange, Travis	IN2P3	Initial conversat	Staff Mecanical engineer at			0.10	0.10	0.10
2.7b.3	Summit Operations	Camera		Camera Engineer - IN2P3	Responsible for tr	Juramy-Gilles, Claire		Lange, Travis	IN2P3	Initial conversat	Staff Instrument/elec. engi			0.10	0.10	0.10
2.7b.3	Summit Operations	Camera		Camera Engineer - IN2P3	Responsible for tr	Laporte, Didier		Lange, Travis	IN2P3	Initial conversat	Staff Mecanical engineer at			0.10	0.10	0.10
2.7b.3	Summit Operations	Camera		Camera Engineer - IN2P3	Responsible for tr	Vezzu, Francis		Lange, Travis	IN2P3	Initial conversat	Staff Mecanical engineer at			0.10	0.10	0.10
2.7b.3	Summit Operations	Camera		Camera Engineer - IN2P3	Responsible for tr	Boucaud, Alexandre		Lange, Travis	IN2P3	Initial conversat	Staff comp. engineer at AP			0.10	0.10	0.10
2.7b.3	Summit Operations	Camera		Camera Engineer - IN2P3	Responsible for tr	Parisel, Camille		Lange, Travis	IN2P3	Initial conversat	Staff comp. engineer at AP			0.10	0.10	0.10
2.7b.3	Summit Operations	Camera		Camera Engineer - IN2P3	Responsible for tr	Migliore, Myriam		Lange, Travis	IN2P3	Initial conversat	Staff instrument. engineer			0.10	0.10	0.10
2.7c.1	Summit Operations	Camera		Camera Technician - IN2P3	Responsible for si	Gallo, Fabrice		Lange, Travis	IN2P3	Initial conversat	Mecanical Staff at CCPM. Te			0.10	0.10	0.10
2.7c.1	Summit Operations	Camera		Camera Technician - IN2P3	Responsible for si	Kusulja, Mille		Lange, Travis	IN2P3	Initial conversat	Mecanical Staff at LPSC. Te			0.10	0.10	0.10
2.7c.1	Summit Operations	Camera		Camera Technician - IN2P3	Responsible for si	Lagorio, Eric		Lange, Travis	IN2P3	Initial conversat	Electronic Staff at LPSC. De			0.10	0.10	0.10
2.7e.1	Summit Operations	Camera		Camera Electronics Consultant - IN2P3	Advices and assis	Juramy-Gilles, Claire		Lange, Travis	IN2P3	Initial conversat	Staff Instrument/elec. engi			0.10	0.10	0.10
3.1c.3	Data Management Opera	RDM Management		Data Management Operations Advisor - Each Rubin Obser		Hernandez, Fabio		O'Mullane, William	IN2P3	Confirmed				0.25	0.25	0.25
3.1c.4	Data Management Opera	RDM Management		Data Management Operations Advisor - Each Rubin Obser		Beckett, George		O'Mullane, William	UK	Confirmed				0.25	0.25	0.25
3.2e.3	Data Management Opera	US Data Facility	Fr DF Group	Data Wrangler - IN2P3	The data wrangle	Hernandez, Fabio	Fabio Hernandez	Bolton, Adam	IN2P3	Confirmed	Fr DF Group Leader			0.25	0.25	0.25
3.2e.3	Data Management Opera	US Data Facility	Fr DF Group	Data Wrangler - IN2P3	The data wrangle	IN2P3 Data Wrangler #2	Fabio Hernandez	Hernandez, Fabio	IN2P3	Not yet identifie	Used to be in Data Curation			1.00	1.00	1.00
3.2e.4	Data Management Opera	US Data Facility	UK DF Group	Data Wrangler - UK	The UK data wrar	Noble, Tim		Jones, Roger	UK	Confirmed	Used to be in Data Curation			0.67	0.67	0.67
3.2e.4	Data Management Opera	US Data Facility	UK DF Group	Data Wrangler - UK	The UK data wrar	Sloan-Murphy, Dominic		Jones, Roger	UK	Initial conversat	Used to be in Data Curation			0.25	0.25	0.25
3.2g.3	Data Management Opera	US Data Facility	Fr DF Group	Catalog Manager - IN2P3	The catalog man	Mainetti, Gabriele	Fabio Hernandez	Hernandez, Fabio	IN2P3	Confirmed	Used to be in Workflows Gr			1.00	1.00	1.00

- Renewal of the IN2P3 - DOE agreement
  - draft ready: includes all our contributions during operations
  - hard to get attention from DOE to converge on this “now”
- LSST France will also have to adapt to the transition from construction to operations!



# DESC News



- **Collaboration meeting in Illinois in July** (few people from LSST France)
  - proposal to hold a satellite hub in Paris @ APC
  - Vote [here](#) (see my email) before Friday
- **New spokesperson to start October 2025**
  - Gautham Narayan (Univ. of Illinois, SuperNovae)
- **Evolution of policies**
  - to go through early science and the first DESC publications
- Remember to ask to become **DESC Full Member** if you think you are eligible

# DESC on-going discussions on policies



- **Early science**
  - ~80 papers proposed with DP1, DP2 and DR1 !
  - think about DP1 data as an example of what may go wrong
    - **commissioners** have been working for months on these data
    - DESC members will get data access only on June 30th
- **Key papers**
  - A paper that involves a large fraction of the collaboration, crosses several working groups and/or a paper presenting novel cosmological constraints with Rubin data.
  - all papers on cosmological constraints
  - signed by all builders
- **Supporting papers (new)**
  - A Standard Paper that directly supports the DESC Key Paper results.
  - signed by ?
- **Standard papers**
  - signed by who contributed

- DESC Full Member
- Rubin commissioners
- DESC builder
- Rubin builder

Contribute to discussions and do not hesitate to give me feedback



# DESC responsibilities in 2025

## ● DESC

- Strong involvement in working coordination and committees
- To be continued!

## ● Projet Rubin

- Sylvie Dagoret-Campagne au Survey Cadence Optimization Committee (SCOC) en 2025 : talk later today!

Name	Lab	Project/Science	Working Group	Function
Pierre Antilogus	LPNHE	DESC	Advisory Committee	Member
<a href="#">Pierre Antilogus</a>	LPNHE	<a href="#">Rubin-Camera</a>	<a href="#">Filter Exchange System</a>	<a href="#">Subsystem Lead</a>
Sylvie Dagoret-Campagne	IJCLab	<a href="#">Rubin</a>	<a href="#">SCOC</a>	<a href="#">Member</a>
Eric Aubourg	APC	DESC	Operations	Deputy Operation Manager
<a href="#">Eric Aubourg</a>	<a href="#">APC</a>	<a href="#">Rubin-Camera</a>	<a href="#">CCS</a>	<a href="#">Physicist/Subsystem Lead</a>
Alexandre Boucaud	APC	DESC	Membership Committee	Co-chair
<a href="#">Dominique Boutigny</a>	<a href="#">LAPP</a>	<a href="#">Rubin</a>	<a href="#">Users Committee</a>	<a href="#">Member</a>
Dominique Boutigny	LAPP	DESC	Data Facility Committee	Member
Céline Combet	LPSC	DESC	Operations Committee	Member
Sylvie Dagoret-Campagne	IJCLab	DESC	2023 Collaboration Council Nominating Committee	Member
Cyrille Doux	LPSC	DESC	Weak Lensing and Large Scale Structures	Co-convener
Dominique Fouchez	CPPM	DESC	Speakers Bureau	Member
Philippe Gris	LPC	DESC	OS&TD	Pipeline scientist
Thibault Guillemin	LAPP	DESC	Publication Board	Member
<a href="#">Fabio Hernandez</a>	<a href="#">CC-IN2P3</a>	<a href="#">Rubin Operations</a>	<a href="#">Data Management</a>	<a href="#">Advisor to AD Data Management - French Data Facility</a>
<a href="#">Fabio Hernandez</a>	<a href="#">CC-IN2P3</a>	<a href="#">Rubin Operations</a>	<a href="#">Rubin Inter-data facility Data Replication</a>	<a href="#">Convener</a>
<a href="#">Emille Ishida</a>	<a href="#">LPC</a>	<a href="#">Rubin</a>	<a href="#">Fink</a>	<a href="#">Co-lead</a>
François Lanusse	AIM/INSU	DESC	Collaboration Council	Member
Simona Mei	APC	Galaxy SC		Coordinator
<a href="#">Simona Mei</a>	<a href="#">APC</a>	<a href="#">Rubin</a>	<a href="#">SAC</a>	<a href="#">Member</a>
<a href="#">Marc Moniez</a>	<a href="#">IJCLab</a>	<a href="#">Rubin</a>	<a href="#">AuxTel Spectro</a>	<a href="#">?</a>
<a href="#">Jérémy Neveu</a>	<a href="#">IJCLab</a>	<a href="#">Rubin</a>	<a href="#">CBP &amp; AuxTel</a>	<a href="#">Member</a>
Jérémy Neveu	IJCLab	Rubin	Collaboration Council	Member
<a href="#">Julien Peloton</a>	<a href="#">IJCLab</a>	<a href="#">Rubin</a>	<a href="#">Fink</a>	<a href="#">Co-lead</a>
Vincent Poireau	IN2P3	DESC	International Resource Committee	Member
Benjamin Racine	CPPM	DESC	DIA topical team	Co-lead
Marina Ricci	APC	DESC	Cluster	Co-convener
Marina Ricci	APC	DESC	EDI Comittee	Ex-officio Member
Cécile Roucelle	APC	DESC		Ombud
Bruno Sanchez	CPPM	DESC	Time Domain	Co-convener
Rance Salomon	LAPP	DESC	Cluster	Co-convener

# Communication



- New exposition of 10 panels on observational cosmology, funding with M. Rigault's ERC
  - work with Gaëlle Shiffrin, and contributions from many of you!
  - 1 instance printed for IP2I, 2 more in a roll-up format shall be available for first light
- Bluesky account setup thanks to P. Royole and S. Gallego
  - S. Gallego, postdoc@APC devient community manager pour LSST (en contact avec Perrine)
- Technical update of the "[lsst.fr](https://lsst.fr)" web site, done with the help of CC-IN2P3
  - done in early January: it broke everything... as expected
  - rebuilt basic pages with the help of S. Gallego
  - more work needed now: contact me if you are knowledgeable with WordPress
- Article in *Le Figaro* (M. Moniez, C. Doux)
  - <https://www.lefigaro.fr/sciences/matiere-noire-planete-x-geocroiseurs-ce-nouveau-telescope-qui-va-revolutionner-l-astronomie-en-2025-20250202>
- New videos taken @ CC-IN2P3 for a US based documentary focused on data processing, coordinated by SLAC, produced by PBS Nova
- Translation and adaptation of a press release about the installation of the camera on the telescope :  
March 12th
  - we "missed" a few press releases since then...



# Communication for the First Light event



- **Team**

- CNRS direction of communication: Manon Landurant
- IN2P3 direction of communication: Emmanuel Jullien, Perrine Royole-Degieux, Alice Carnaux
- IN2P3 labs communication: strong involvement from **all of the labs communication teams**
- LSST France members: >20 of you involved
- bi-weekly meetings since March to get ready

- **Events**

- Washington **Watch Party** - the official one
  - Benjamin Racine will represent LSST France
  - Science delegate from the French Embassy and a CNRS representative
- Paris **Watch Party** at the planetarium of the cité des sciences et de l'industrie
  - 250 sits in the planetarium, open to public through various ways
  - ~10 LSST France representatives to present Rubin, our work and explain first light images
  - media upon invitations
  - ~50 sits for you!
- **CNRS National Press Release on June 24th**: strong visibility expected in the media
- Grenoble LSST party on June 27th @ LPSC
  - inflatable planetarium, public conferences for children and adults, activities with local EPO associations
  - strong involvement of the communication team @ LPSC (Florent and Aurore !)
- Release of short (and long) videos
- And more at LAPP (public conference) and Marseille (participation to a local watch party)

# Watch party at the Cité des Sciences

Accueil → Au programme → Activités & spectacles → Conférences → Événements

## ACTIVITÉS & SPECTACLES

### CONFÉRENCES ÉVÈNEMENTS

## L'Observatoire Vera C. Rubin sous la Voie lactée

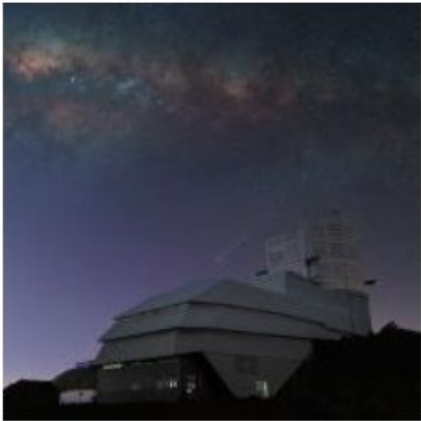
Lundi 23 juin, le CNRS donne rendez-vous au Planétarium à la Cité des sciences et de l'industrie pour découvrir les premières images captées par la plus grande caméra astronomique du monde en compagnie de chercheurs.

L'observatoire Rubin, situé au Chili, utilisera un télescope de 8,4 mètres équipé de la plus grande caméra numérique au monde pour effectuer un relevé décennal de l'ensemble du ciel de l'hémisphère sud à partir de la fin de l'année 2025. Les données obtenues, avec des images prises à travers six filtres de couleur différents, permettront aux scientifiques d'isoler plus facilement que jamais les flux stellaires au sein et au-delà de la Voie lactée et de les examiner à la recherche de signes de perturbation de la matière noire.



→ Rendez-vous sur nos réseaux sociaux le 9 juin pour gagner vos invitations pour cet événement exceptionnel

# Watch party at LPSC on June 27th



*Observatoire Vera C. Rubin  
au sommet du Cerro Pachón,  
Crédit : Hernan Stockebrand*

## Les premières lumières de l'observatoire Vera C. Rubin diffusées au LPSC ★

You are welcome to join!  
<https://lpsc-indico.in2p3.fr/event/4085/overview>

*4 juin 2025*

**17h30 : Séance de planétarium — 1h**

**18h30 : Conférence pour les enfants — 30min**

**19h20 : Séance de Planétarella — 1h et séance de planétarium — 1h**

**20h30 : Conférence pour les adultes — 45min et séance de planétarium — 1h**

**21h45 : Séance de planetarella — 1h et séance de planétarium — 1h**

**En accès libre à partir de 18h00 : ateliers scientifiques, expositions et foodtrucks**

**De 23h00 jusqu'à 2h00 du matin : observations des étoiles avec les télescopes d'AurorAlpes**



# Getting ready for the First Light event



- **CNRS National Press Release on June 24th**
  - strong visibility expected in the media
- **Rubin Media-Kit French version (70 pages)**
  - team work of 6 people
  - available soon!
- **Updated LSST IN2P3 photo-gallery (Marie Roger-Chantin, CPPM)**
  - <https://phototheque.in2p3.fr/index.php?/category/2328>
  - complementary to Rubin media gallery
- **Shorts (and long) videos taken in our labs**
  - release soon on the CNRS youtube channel: <https://www.youtube.com/@CNRS/shorts>
  - thanks to all who agreed to have their head on youtube
  - thanks to Alexandre Boucaud for providing on-site footage
- **List of experts available to communicate with the media**
  - [here](#)
  - list is open, do not hesitate to add your name)

# Chaos in the US



- US government attack against diversity and against science
  - diversity first early 2025
  - science quickly followed with dramatic budget cuts for 2026 (>50% cuts proposed to congress)
- Rubin project
  - position not clear early January - under heavy pressure
  - clarification in the past month, in particular with respect to the community
  - 2026 budget is 15% less than planned but still ok
- LSST France and DESC
  - **stay strong on defending science and people rights**
  - LSST France request to IN2P3 head to talk to DOE
- CNRS / France
  - Stand Up for Science support
  - Choose France (not quite clear) : <https://choosefrance.fr/fr>
  - data archive