



# *A look back at the focal plane workshop at LAPP*

Thibault Guillemin

LSST-France

June 10, 2024



# The most important



22 participants

# Overview

- LAPP: March 27-29  
2 days in total
- Topic:  
The workshop will focus on the activities which enter the in-kind contribution 'Commissioning at pixel level, data quality, and “on-sky” calibration'. A large part of the workshop will be dedicated to the analysis tools (in the way of DM bootcamp).
- Guiding idea:
  - Half-time for presentations (introduction of the tools/concepts/methods or discussions)
  - Half-time for hands-on sessions
- Indico: <https://indico.in2p3.fr/event/32125/>


# Session 1


MERCREDI 27 MARS




12:30 → 14:00 **Repas au LAPP** ⌚ 1h 30m

14:00 → 17:30 **Introduction** ✎


14:00 **Bienvenue au LAPP** ⌚ 10m ✎  
Orateur: thibault guillemin (LAPP)

14:10 **Les CCD de LSST et les anomalies** ⌚ 20m ✎  
Orateur: Claire Juramy (LPNHE/CNRS)  
 CCD-LSST-2024032...

14:30 **Statut général du commissioning plan focal / Nos activités** ⌚ 20m ✎  
Orateurs: Pierre Antilogus (LPNHE), thibault guillemin (LAPP)  
 Google Slides

14:50 **Types de données et Butler (réplication, databases, data products, etc.)** ⌚ 40m ✎  
Orateurs: Dominique BOUTIGNY (LAPP), Fabio Hernandez (CC-IN2P3), thibault guillemin (LAPP)  
 2022-06-29-bootca...  Inspecting a butler r...  SITCOMTN-061.pdf

15:30 **Pause café** ⌚ 30m 📍 LAPP

16:00 **Pratique** ⌚ 1h 30m 📍 Salle des Sommets ✎  
Voir: [https://github.com/lsst-france/focal\\_plane\\_bootcamp](https://github.com/lsst-france/focal_plane_bootcamp).  
Comptes  
Butler  
Visualisation d'images  
Mosaïques?  
 Github Repo

# Session 2

JEUDI 28 MARS



09:00 → 12:30 Instrumental Signature Removal



09:00 **Stratégie globale de calibration dans LSST**

🕒 30m



**Orateur:** Pierre Antilogus (LPNHE)

[Google Slides](#)

09:30 **Pipetasks, ISR, bps**

🕒 1h



**Orateurs:** Fabio Hernandez (CC-IN2P3), Quentin Le Boulc'h (CC-IN2P3), thibault guillemin (LAPP)

[Execution Tools](#)

[Pipetasks.pdf](#)

10:30

**Pause café**

🕒 30m

📍 LAPP

11:00

**Pratique**

🕒 1h 30m

📍 Salle des Sommets



Pipetasks  
Slurm, bps

12:30 → 14:00

**Repas au LAPP**

🕒 1h 30m

# Session 3

12:30 → 14:00

Repas au LAPP

🕒 1h 30m

14:00 → 17:30

Calibrations et validation des données



14:00

**Calibrations: production, validation, accès et application**

🕒 1h



Orateur: thibault guillemin (LAPP)

Calibrations.pdf

15:00

**SVV workflow : analysis\_tools, JIRA, tech. notes, etc. (1/2)**

🕒 30m



Orateurs: Dominique BOUTIGNY (LAPP), Rance Solomon (LAPP), Dr Sylvie Dagoret (IJCLab)

2024-03-28-Analysi...

2024-03-28-MakeTe...

analysis\_tools - set...

JIRA-Tickets-PR-etc...

15:30

**Pratique**

🕒 1h 30m

📍 Salle des Sommets



Calibrations  
analysis\_tools

19:00 → 19:30

Lieu du dîner

🕒 30m

Compte-rendu



Restaurant.JPG

19:30 → 21:30

Dîner dans Annecy

🕒 2h

# Session 4

VENDREDI 29 MARS



09:00 → 12:30 **Stratégie et validation des données**



09:00

**Stratégie: quelles analyses dans LSST-France? Comment s'organise-t-on au mieux? Comment améliorer notre intégration dans le projet?**

🕒 1h



**Orateurs:** Dr Johan Bregeon (IN2P3 LSPC), Pierre Antilogus (LPNHE), thibault guillemin (LAPP)

Workshop\_LAPP\_20...

10:00

**SVV workflow : analysis\_tools, JIRA, tech. notes, etc. (2/2)**

🕒 30m



**Orateurs:** Dominique BOUTIGNY (LAPP), Rance Solomon (LAPP), Dr Sylvie Dagoret (IJCLab)

10:30

**Pause café**

🕒 30m

📍 LAPP

11:00

**Pratique**

🕒 1h 30m

📍 Salle des Sommets



Suite analysis\_tools si besoin

Autres outils SVV

Eventuellement retour sur des sessions précédentes

12:30 → 14:00

**Repas au LAPP**

🕒 1h 30m

# Github repository

[https://github.com/lsst-france/focal\\_plane\\_bootcamp](https://github.com/lsst-france/focal_plane_bootcamp)

lsst-france / focal\_plane\_bootcamp Public

<> Code Issues Pull requests Projects Security Insights

main 2 Branches 0 Tags

Go to file Code

tguillemLSST up f2a923d · 3 months ago 108 Commits

batch	Update README.md	3 months ago
butler	up	3 months ago
pipetask	up	3 months ago
svv	update dd svv/analysis_tools/notebooks/data_access_demo_...	3 months ago
README.md	up	3 months ago

README

## Package description

This package was created for the LSST-France focal plane workshop at LAPP in March 2024.  
Website of the workshop: <https://indico.in2p3.fr/event/32125/>.  
Associated slack channel: in2p3-focal-plane

+ a dedicated workshop butler repository at CC



# Example 1

## Running an ISR task with bps

[focal\\_plane\\_bootcamp](#) / [batch](#) / [bps](#) / [frdf](#) /

```
cd /sps/lstt/users/${USER}/bps
git clone https://github.com/lstt-france/focal_plane_bootcamp
```

Source the environment

```
source /pbs/throng/lstt/software/bps-parisl/prod/setup.sh
```

### Local execution of ISR on a single detector using BPS

The first step is to process locally a single detector with the ISR task. Instead of using `pipetask`, this can be done using BPS:

```
bps_submit.sh --interactive --release w_2024_09 focal_plane_bootcamp/batch/bps/frdf/LSSTCam_isr.yaml
```

The run should complete in a few minutes.

# Example 2

## Creating a Technote

focal\_plane\_bootcamp / svv / technotes /

a) Then select the type of Technote you want to read:

- recommended : reStructuredText
- possible : latex on your computer (or in overleaf , to be tested)

b) You have to fill your authorId (inside the authordb.yaml file). c) Provide a title and a short abstract (can be updated later)

c) Then the sqrbot-jr prepare your note on github:

# sqrbot-jr

Messages À propos de

Vendredi 8 mars

**SQuaRE Bot, Jr.** APPLI 22 h 07  
@sylviedc 🙌 Nice! I'll help you create boilerplate for a Technote (reStructuredText) repo.

Aujourd'hui

**sylvie dagoret** 9 h 18  
create project

**SQuaRE Bot, Jr.** APPLI 9 h 18  
@sylviedc 🙌 Nice! I'll help you create boilerplate for a Technote (reStructuredText) repo.

**sylvie dagoret** 13 h 39  
create project

**SQuaRE Bot, Jr.** APPLI 13 h 39  
@sylviedc, got it! I'll start working on your Technote (reStructuredText) repository right away. I'll keep you updated!

# 2 réponses Dernière réponse aujourd'hui à 13 h 42

Fil de discussion sqrbot-jr

**SQuaRE Bot, Jr.** APPLI il y a 17 minutes  
@sylviedc, got it! I'll start working on your Technote (reStructuredText) repository right away. I'll keep you updated!

2 réponses

**SQuaRE Bot, Jr.** APPLI il y a 15 minutes  
@sylviedc, the documentation URL will be:  
<https://sitcomtn-119.lsst.io>.

*That page will give a 404 error until the first build completes. Hold tight!*

**SQuaRE Bot, Jr.** APPLI il y a 15 minutes  
@sylviedc, the new repository is:  
<https://github.com/lst-com/sitcomtn-119>

You can start working on it!

*If I have any extra work to do, I'll send a PR and let you know in this thread.*

# Conclusion

Workshop material = goldmine of resources to efficiently contribute to Rubin commissioning

**Big thanks to the experts who helped me to prepare this material:  
Fabio, Quentin, Dominique, Sylvie, Rance**

Questions:

- Maintenance/update of the repository?
- Similar workshop next year?