

# **JMMC/SUV**

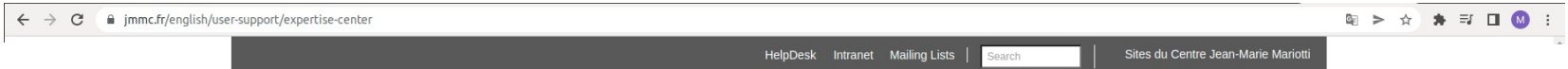
## **AG JMMC 2024**



**Alexis Matter**

*Laboratoire J.-L. Lagrange - Observatoire de la Côte d'Azur*

## www.jmmc.fr/SUV



- USER SUPPORT**
- How to access
- Expertise Center**

Home > User Support > Expertise Center

### Expertise Center

#### The french Expertise Center SUV/JMMC

Need for support? Visit the [HELPDESK ...](#)

The french expertise center SUV (for Services Aux Utilisateurs du VLT) provides a complete support to the users of the 2nd generation VLT instruments. This support consists of an individualized assistance (FAQ, questions submission, face-to-face meetings) that covers the preparation of observing proposals and observations, and the GRAVITY and MATISSE data reduction. It also includes an assistance in the data analysis, using the model fitting and image reconstruction softwares available from the JMMC website.

SUV is coordinated by Alexis Matter at the Observatoire de la Côte d'Azur (OCA) in Nice, and involves astronomers from three other nodes (Observatoire de Paris-Meudon, Observatoire des Sciences de l'Univers de Grenoble, Observatoire des Sciences de l'Univers de Lyon). A centralized helpdesk platform, accessible from the orange link above, collects all the user questions and requests for a remote or face-to-face assistance in one of the four nodes.

SUV is part of a european network of VLT Expertise Centers (ECs), which are the backbone of support and dissemination activities to the current and new VLT users. More detailed information about the VLT ECs network can be found on the webpage of the [European Interferometry Initiative](#).

Detailed technical information about the VLT instruments, including tools download and documentation can be found [here](#) for GRAVITY, and [here](#) for MATISSE.

#### Data protection policy

SUV is open to every researcher wanting to reduce a raw VLT dataset to which they have access (either as PI or CoI, or because the ESO protection period lapsed). SUV can accept several requests on the same raw dataset.

Any dataset reduced with the help of SUV is put on OIDB (Optical Interferometry DataBase) in a private collection only accessible by the user and his/her designated colleagues. Such a collection will be kept private until the first publication of scientific results based on the reduced dataset, or ultimately until one year after the end of the ESO protection period on the raw data.

Therefore, the general rule is that all data reduced with the help of SUV will be made publicly available after the first scientific publication, or ultimately one year after the release of the raw data.

As a corollary, if SUV reduces raw data that have been public for more than one year, the reduced data will be made public immediately on OIDB.

#### Acknowledgements

The SUV expertise center has received funding from the European union's Horizon 2020 research and innovation programme under grant agreement No 730890.

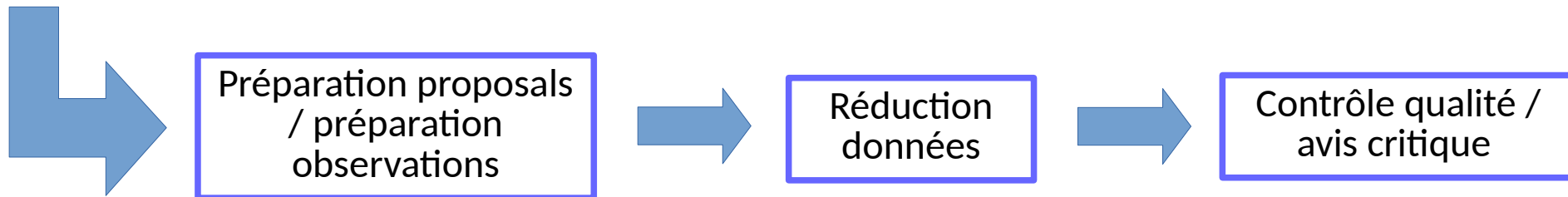
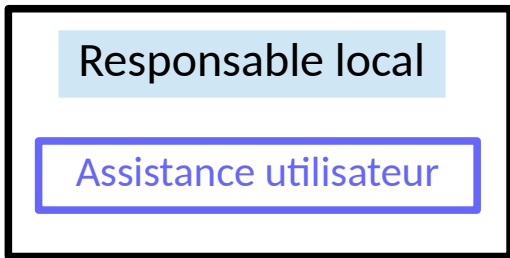
If your research benefited from the help of SUV, please acknowledge the use of this JMMC service by adding the following text in the acknowledgements section of your article:

"This research has benefited from the help of SUV, the VLT user support service of the Jean-Marie Mariotti Center <https://www.jmmc.fr/suv>"

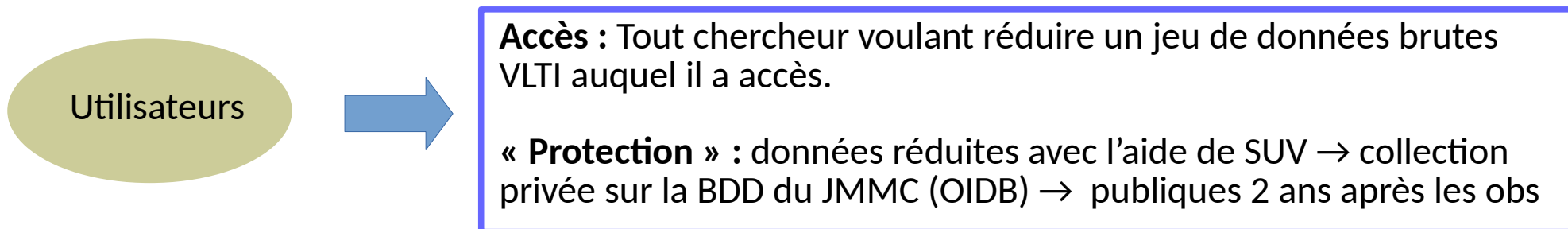


## Services disponibles

### Noeud local



## Accès au service / protection des données réduites



## Ressources humaines en 2023 (pour mise à jour BDD INSU 2024)

✓ Total FTE = **0.8 FTE** (0.7 FTE chercheurs + 0.1 FTE ingénieurs)

✓ 7 chercheurs (contributions ~ 5 % en général)

A. Matter }  
J. Leftley } **OCA**  
F. Millour }

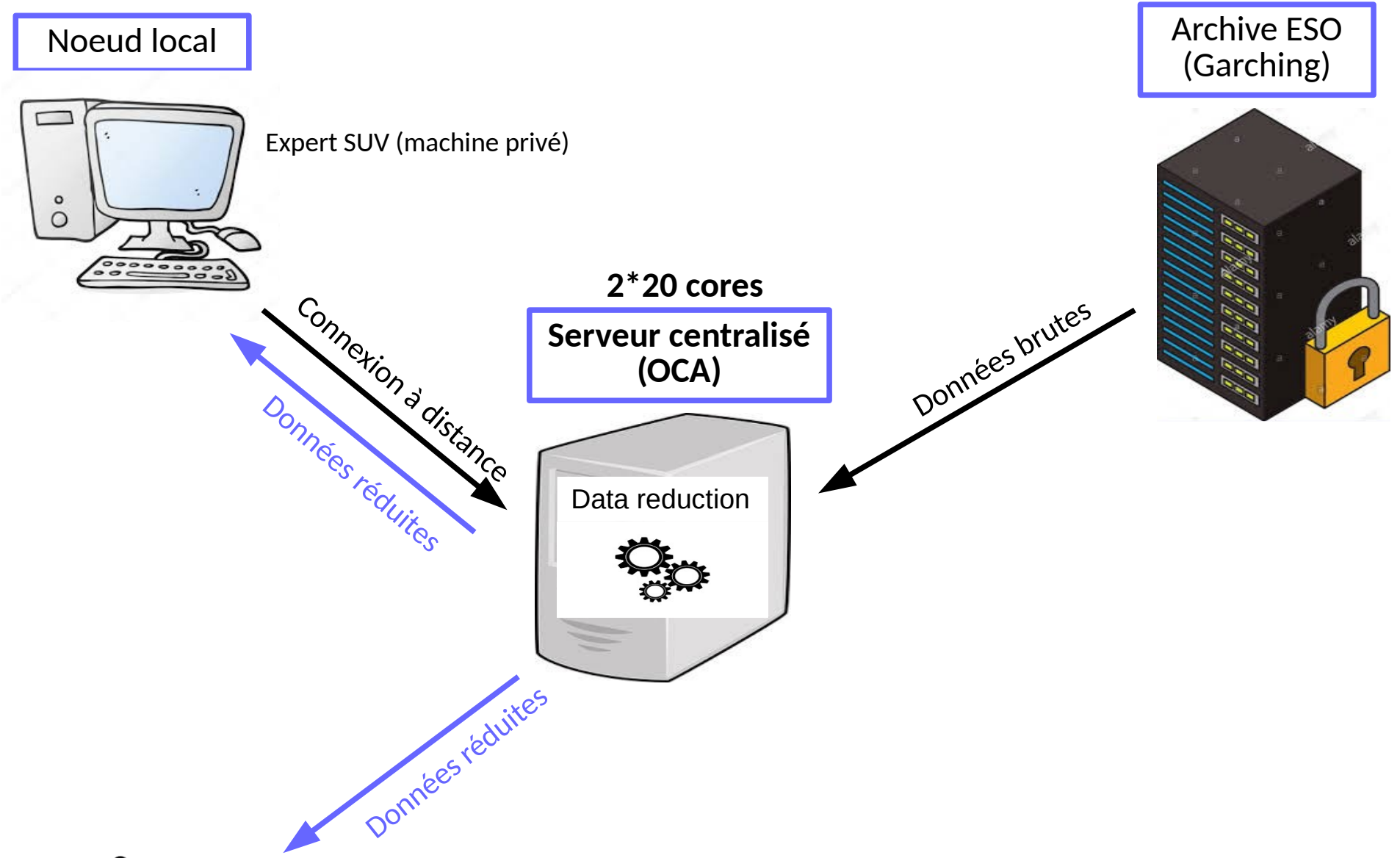
K. Perraut } **OSUG**

M. Tallon }  
E. Thiebaut } **OSUL**

M. Montargès }  
F. Vincent } **OBSPM**

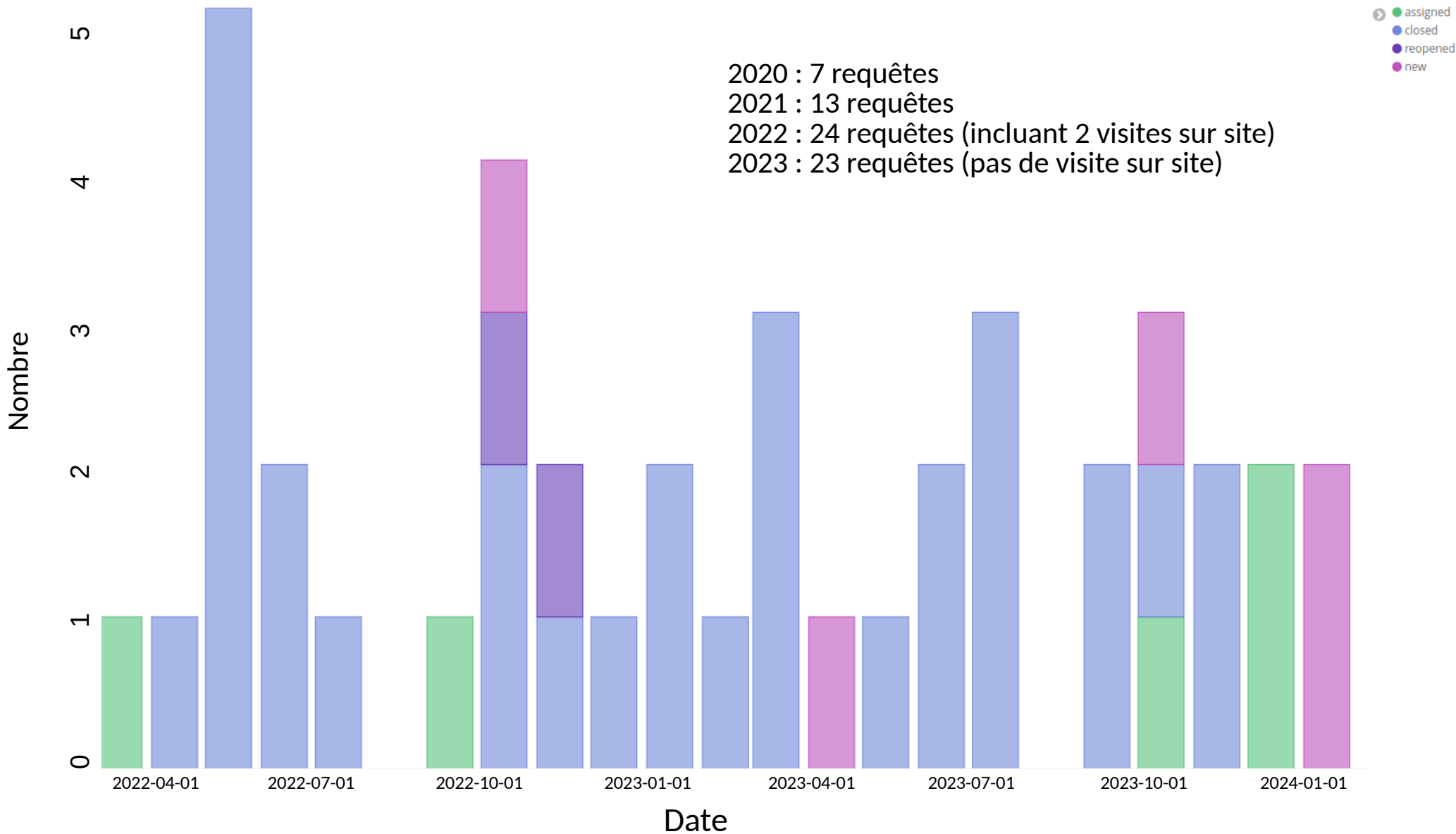
✓ 2 ingénieurs en support (contributions ~ 5%)

L. Bourgès }  
G. Mella } **OSUG**



## Tickets SUV (2022-2023)

Temps traitement ticket ~ qqes minutes à plusieurs jours



## Réunions

- ✓ Atelier SUV 'mise à niveau sur les outils d'assistance JMMC' (Juin 2023)

## OIDB

- ✓ ~ 10 collections SUV déposées sur OIDB

## Peer-reviewed Publications

- ✓ 2020-2023 → 7 articles (MATISSE)

- Kirchschrager, F., Ertel, S., Wolf, S., et al. (2020) "First L band detection of hot exozodiacal dust with VLTI/MATISSE," MNRAS, 499, L47-L52 - 2020MNRAS.499L..47K

- Zain Mobeen et al. (2021) "The mid-infrared environment of the stellar merger remnant V838 Monocerotis," A&A, 655, A100.

- Corporaal, A., Kluska, J., Van Winckel, H., et al. (2021) "Multi-wavelength VLTI study of the puffed-up inner rim of a circumbinary disc," A&A, 650, L13.

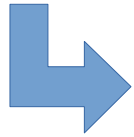
- Hocdé, V., Nardetto, N., Matter, A., et al. (2021) "Mid-infrared circumstellar emission of the long-period Cepheid  $\ell$  Carinae resolved with VLTI/MATISSE," A&A, 651.

- Chiavassa A. et al. (2022) 'The extended atmosphere and circumstellar environment of the cool evolved star VX Sagittarii as seen by MATISSE , A&A, 658, A185.

- Cannon, E., Montargès, M., de Koter, A., et al. (2023) "The dusty circumstellar environment of Betelgeuse during the Great Dimming as seen by VLTI/MATISSE," A&A, 675, A46

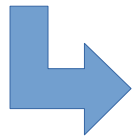
- Corporaal, A., Kluska, J., Van Winckel, H., et al. (2023) "Transition disc nature of post-AGB binary systems confirmed by mid-infrared interferometry," A&A, 674, A151 - 2023A&A...674A.151C

## ✓ Programme OPTICON/RADIONET (financement EU)



2021-2024 → **3 keuros** pour activités de networking  
→ **24 keuros** pour organisation école VLTl 2024 en France

## ✓ Dotation OSUs pour les activités JMMC



**8 keuros** par an (à partager avec MOIO)



## European-interferometry.eu/vlti-expertise-centers

WP17 → OPTICON/RadioNet Pilot program (EU funding)



### VLTI Expertise Centre (VEC) Network



Universiteit  
Leiden  
Leiden Observatory

JMMC

UNIVERSITY OF  
EXETER



KU LEUVEN



centra

Credit : M. Filho

## ✓ Session VLTI à l'EAS 2023

→ présentation des centres VLTI + présentations astros

## ✓ Amélioration de la visibilité du réseau

→ Page web sur le site de l'EII + redondance infos sur centres VLTI (pages web et cfp ESO)

## ✓ Sondage vers la communauté

→ faible taux de publication des programmes VLTI exécutés (< 30 %)

→ sondage à venir vers les PIs de proposals VLTI acceptés sur la période P100-110

## ✓ Réduction et archivage systématique des données d'archive VLTI

→ Démarrage réduction systématique des données GRAVITY par l'ESO (début 2023)

→ contrôle-qualité ('curation') effectuée par les centres VLTI (coordination : Porto)



Définition des procédures de contrôle-qualité en cours

## Assistance aux utilisateurs individuels

- ✓ Formation/coordination du service : augmentation fréquence réunions
- ✓ Actions de communication à maintenir/développer
- ✓ Archivage plus systématique données interférométriques réduites sur (OIDB)
- ✓ Echanges à développer avec les ARCs ALMA → retour d'expérience

## Réseau européen / ESO

- ✓ Fonctionnement en mode routinier du contrôle-qualité des données GRAVITY (volume données en mode service: ~ **1500 OBs de science depuis Oct 2016**)
- ✓ Extension réduction systématique données d'archive à MATISSE en ~ 2025

## Extension à d'autres instruments

- ✓ Assistance aux utilisateurs de l'instrument SPICA du réseau CHARA
- ✓ Réflexion sur l'arrivée d'instruments de nulling au VLTI → projet NOTT



***Merci !***



Statut tickets JMMC (2020-2022)

