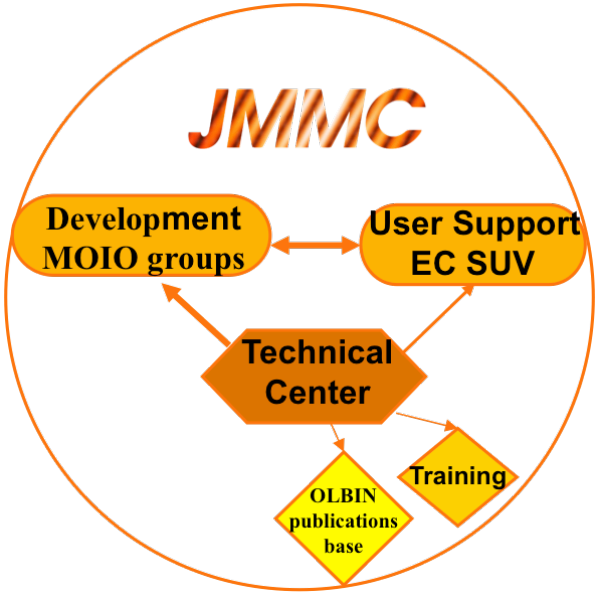


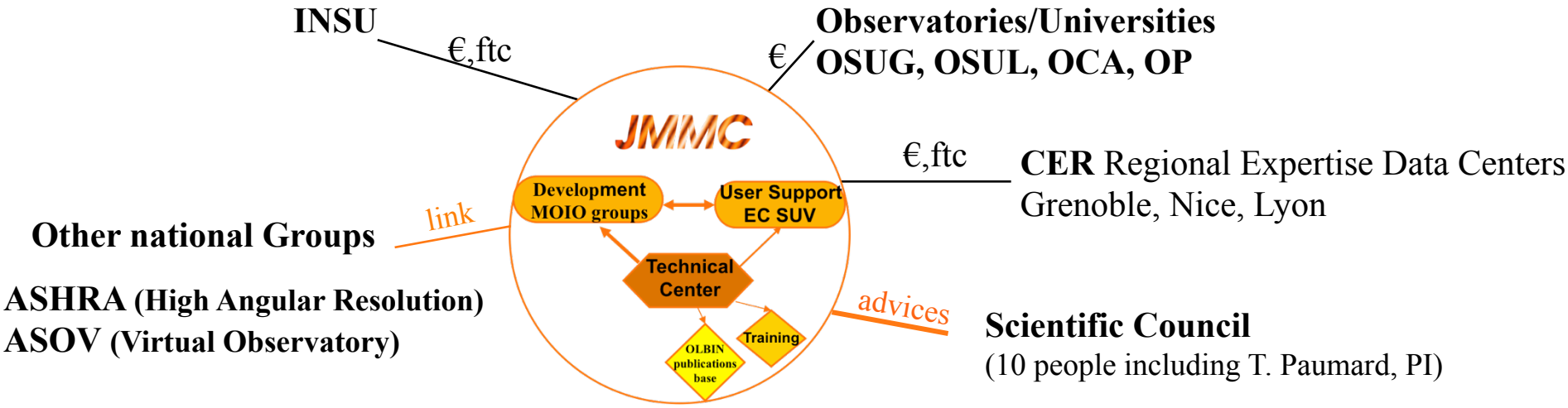
Presentation of the JMMC

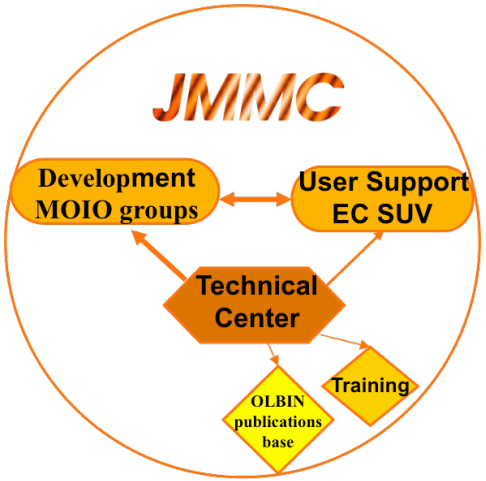
Jean-Philippe Berger, Laurent Bourgès, Gilles Duvert, Guillaume Mella & Isabelle Tallon-Bosc

with Thibaut Paumard (scientific council)

A french national formal structure

- appointed in 2000 by INSU (*Institut National des Sciences de l'Univers*)
- evolving until a structure named "*Pôle thématique national des données en interférométrie optique*" created in 2012
- supported financially by INSU & 4 observatories (Grenoble, Côte d'Azur, Lyon, Paris) and potentially by Data Centers
  - Direction Committee
- advised by a Scientific Committee for its activities and roadmap
- led by a regulated "life"
  - annual activities and prospective reports; frequent internal meetings
  - annual meetings (DC, SC, General meeting with all members)





with people
from different institutes
through different groups

- A **Technical Center**: Guillaume Mella and Laurent Bourgès

  the engineer *dream team*, partial time + possibly temporary contracts ~1.5 FTE

- Working groups inside "**MOIO**" (*Méthodes et Outils pour l'Interférométrie Optique*)
  - partial time of researchers
  - PI : Jean-Philippe Berger
  - H. Beust, A. Chelli, A. Domiciano de Souza, G. Duvert, E. Thiébaut, F. , JB Le Bouquin, M. Tallon, I. Tallon-Bosc, X. Haubois

  → developments, mainly on Tools for Data processing < 1.4 FTE

- **Expertise Center for *Face to Face* User Support** "SUV" (*Service aux Utilisateurs du VLTI*)
  - partial time of researchers
  - PI : Alexis Matter < 0.85 FTE
  - J.C. Augereau, M. Benisty, F. Millour, M. Montargès, K. Perraut, M. Tallon, I. Tallon-Bosc, E. Thiébaut, F. Vincent

and objectives: ensure the lifetime cycle of interferometric optical data

SearchCal

AMHRA

Prepare Observations

Aspro2

Reduce data

amdlib pndrs

View Data

OIFits Explorer

SAMP

a2p2

CDS Catalogs

Fit Models

LITpro

L0 to L3 DataBases

OiDB ObsPortal

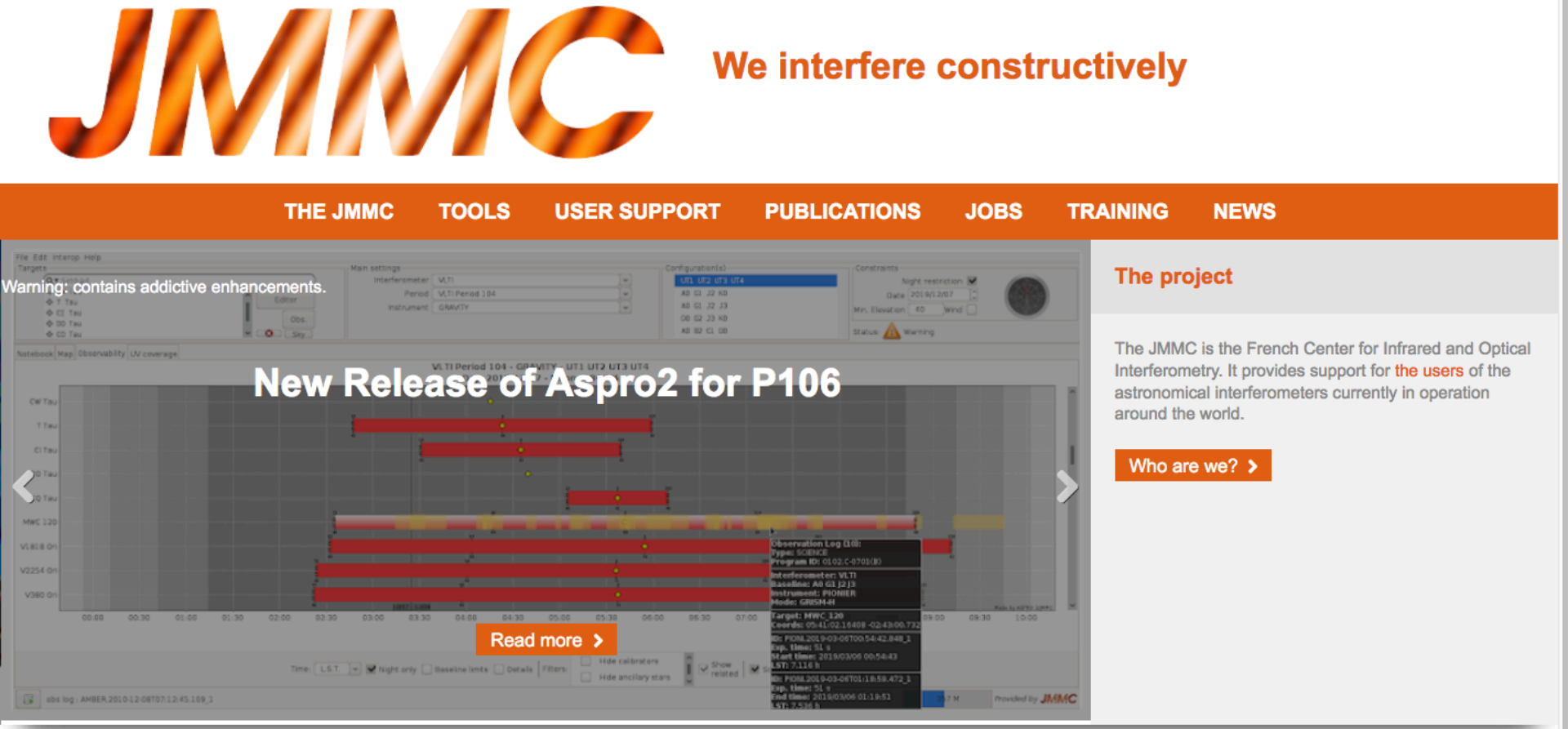
JSDC2 JMDC BadCal

Reconstruct Images

OImaging

Virtual Observatory developments

JMMC web site https://www.jmmc.fr/



JMMC important links

- SUV: https://www.jmmc.fr/english/the-jmmc/suv/
- User support: https://apps.jmmc.fr/feedback/

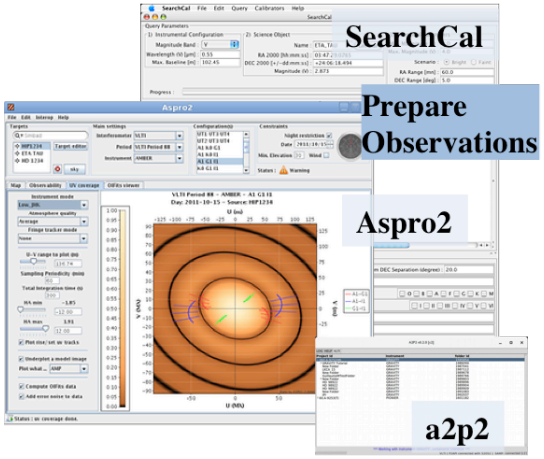
Tools:

- ASPRO2: https://www.jmmc.fr/aspro
- AMHRA: https://amhra.jmmc.fr/
- SearchCal: https://www.jmmc.fr/searchcal
- OIFits Explorer: https://www.jmmc.fr/oifitsexplorer
- LITpro: https://www.jmmc.fr/litpro
- OImaging: https://www.jmmc.fr/oimaging
- OIdb: https://www.jmmc.fr/oidb

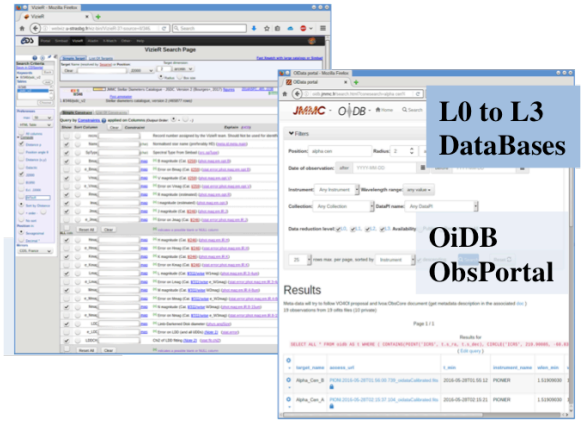
Github repository: https://github.com/JMMC-OpenDev/

- a2p2: https://github.com/JMMC-OpenDev/a2p2
- OiTools: https://github.com/JMMC-OpenDev/oitools
- ...

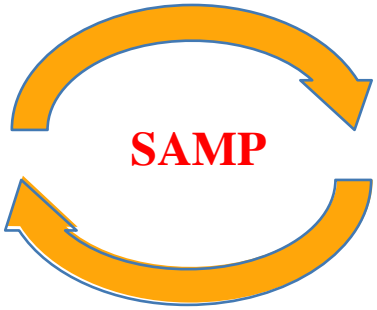
To-day more detailed presentations



Tools and services for observations' preparation (Gilles, Laurent)



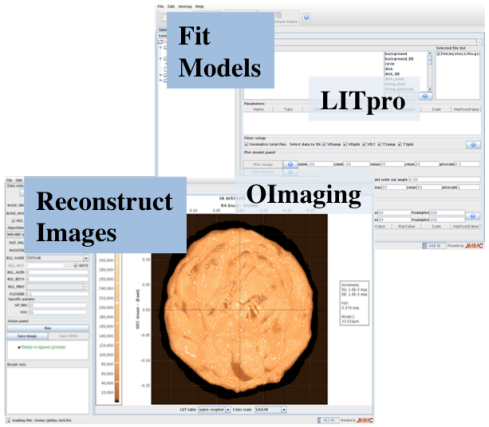
Databases and catalogues (Laurent, Guillaume)



Infrastructure and developments (Laurent, Guillaume)

Major internal activities, present and planned, with present forces + additional one if funding

- OImaging & Model Fitting
  - improvement of the GUI
  - making OImaging ready for polychromatic imaging
  - Improvements of the tools for manipulating OIFits files
    (e.g. merge, filter by mjd, wavelength, baselines, ...)
  - new LITpro2 software with Users functions,...



- Go to Survey's observations support
  - initiate by the project SPICA/CHARA

- Collaboration with CHARA
  - at short term, optimisation of the positioning of the 7th telescope
  - at longer term, help for exploring the uv plane of the expanded array of 12 x 2m telescopes

and with ESO ?

- already successful collaboration between JMMC and ESO
  (2 MOU, on Aspro & SearchCal)

- existing interaction:
  - meeting twice a year before the Calls of proposal between the TC and ESO VLTI staff
  - + now via EC meetings & ESO

- strong wishes for an increase of the interactions level
  - to allow updates more efficiently
  - to allow sharing difficulties or points to improve (for a better lifetime cycle of the data)
  - to allow emergence of subjects of collaboration ?

with the true hypothesis: the limited ressources of JMMC