Welcome to the AMBER Science and Data Reduction JMMC Workshop

Grenoble, 21-22 Mar 2011

Rationale

- AMBER offered since October 2005 to the ESO community

- In July 2010, the last version of the AMBER Data Reduction software has been released by the JMMC under the version amdlib v3.

- opportunity to present this new version of the AMBER data reduction software to gather the astronomers who have obtained AMBER data.

Objectives

This will be the occasion:

- ✓ to learn more on how to reduce AMBER data
- ✓ to publicize the various results
- ✓ share our common experience on the instrument.
- ✓ to share some information on the current status of the instrument.

There will be practical sessions to get use with the AMBER data reduction.

Content

- The participants are welcome to use their laptop and their AMBER data.

- Help to install the new AMBER software

- Benefit from the advices of the JMMC AMBER data reduction group

- Reduce personal data or public data

- Introduction to other JMMC softwares

- Discussion on further developments

Monday 21 March 2011

09:00	*Welcome with coffee*
10:00	Objectives of the meeting, organization of the workshop (F. Malbet)
10:30	AMBER at ESO Paranal (J.-P. Berger)
11:00	amdlib v3 core program tutorial (G. Duvert)
11:30	amd lib yorick interface tutorial (F. Millour)
12:30	*Lunch*
13:30	**Practical session**
15:30	Oral contribution : *"AMBER obs of RS Cap : CO and water vapor in the atmosphere"* (J. Marcaide)
15:50	Oral contribution : *"1-D imaging of the dynamical atmosphere of the red supergiant Betelgeuse in the CO first overtone lines with VLTI/AMBER"* (K. Ohnaka)
16:10	Oral contribution : *"Spectral calibration and spectrum analysis with AMBER"* (F. Patru)
16:30	*Coffee break*
17:00	**Practical session**
18:30	End of session
20:00	Banquet au *Café de la Table Ronde*

Tuesday 22 March 2011

09:00	Oral Contribution : *"Infrared interferometry of C-stars : a tool to study the stellar atmosphere and to constrain evolutionary models."* (C. Paladini)
09:20	Oral contribution : *"Dynamical modeling of disk around Be stars"* (X. Hautbois)
09:40	Oral contribution : *"Imaging with AMBER : available software, and new developments"* (F. Millour)
10:00	*Coffee break*
10:30	**Practical session**
12:00	AMBER data quality assessment from ESO Garching (I. Percheron)
12:30	*Lunch*
13:30	Lit-Pro a sofware to perform model-fitting (G. Duvert)
14:00	**Practical session**
15:30	*Coffee break*
16:00	Round table on future data reduction developments on AMBER data ; conclusion
17:00	End of workshop

Practical sessions

- Reduce your data if you have any...

- Reduce data that we can provide you to exercize

- Learn all the steps of data reduction hopefully uo to model filling and eventually image reconstruction

- Practical information:

  ➡JMMC web site: http://www.jmmc.fr/amberdrs

  ➡Workshop Twiki page http://www.jmmc.fr/amberdrsWS2011

People who can help you

- **Data reduction**
  - Gilles Duvert (IPAG/JMMC)
  - Florentin Millour (OCAA/JMMC)

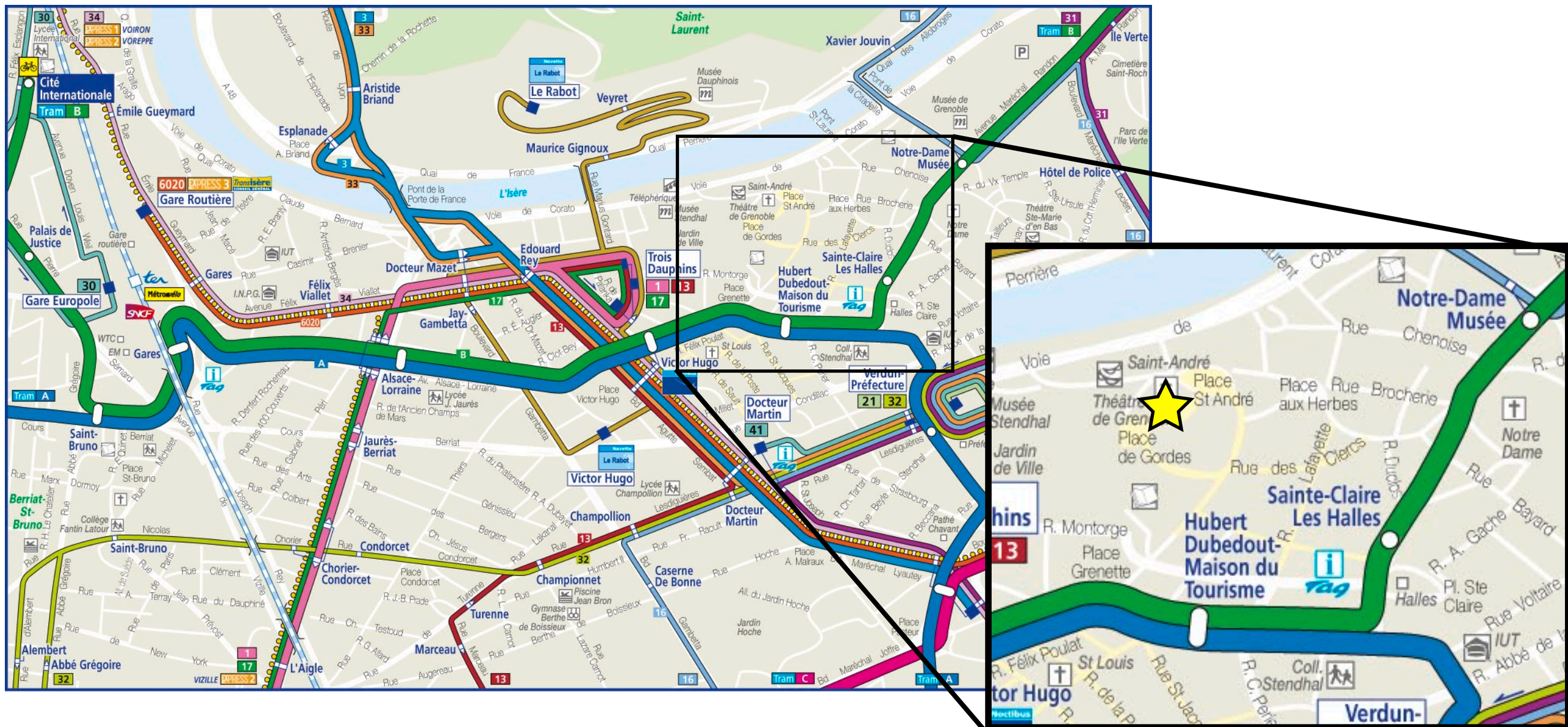 Also: *J.-P. Berger (ESO), A. Chelli (IPAG/JMMC), F. Malbet (IPAG/JMMC), R. Petrov (UNSA)*

- **Technical support**
  - *Software*: Guillaume Mella, Sylvain Lafrasse, Laurent Bourgès (IPAG/JMMC)
  - *Administration*: Laurence Platel (IPAG)

Organization

- Lunches will be offered as a buffet
- Workshop dinner at Café de la Table Ronde at 20:00
  Place Saint-André also called *Place du Tribunal*

Tram station: Hubert Dubedout

Enjoy the workshop !