

# **AETHRA meeting**

*IRAM Grenoble, April 11+12, 2017*

## **Tuesday April 11**

- 14h00      Welcome
- 14h10      Radionet (I. Rottmann, MPIfR\*)
- 14h35      AETHRA work-package, budget, deliverables (F.Gueth, IRAM)
- 15h00      WP 5.1 Semiconductor LNAs and MMIC receivers
- Task 1: new mHEMT technology (F. Thome, IAF)
- Task 2: W-Band MMIC array demonstrator
- System aspects (P. Serres, IRAM)
- Concept of pixel module – planar OMT revisited (A. Navarrini, INAF)
- 16h00      Coffee break
- 16h20      WP 5.2 Very large focal plane array of SIS mixer receivers
- Task 1: Increase RF/IF bandwidth of SIS mixers (V. Desmaris, OSO\*)
- Task 2: 1mm array demonstrator (D. Maier, IRAM)
- IF amplifiers developments (J.D. Gallego, OAN)
- 17h20      WP 5.3 FPA of receivers operating around 1 THz
- Task 1: SIS mixers for 1 THz receivers (N. Honingh, U. Cologne)
- Task 2: 2SB balanced SIS mixers at 1 THz (A. Baryshev, RuG)
- 18h00      End of day 1

## **Wednesday April 12**

- 09h00      WP 5.3 FPA of receivers operating around 1 THz (ctd)
- Task 3: Enlarging IF bandwidth of HEB (J.R. Gao, TUDelft\*)
- Task 4: HEB mixers array demonstrator (Y. Delorme/J.M. Krieg, Obs. Paris\*)
- Discussion
- 10h00      WP 5.4 Transverse subtasks
- Task 4.1: LO chains (M. Henry, RAL\*)
- Task 4.2: Large bandwidth IF amplifiers
- Task 4.3: Networking (N. Honingh, U. Cologne)
- 11h00      Coffee break
- 11h20      General discussion: organization, reporting, next steps, etc.
- 12h00      End of meeting

\* presentation via video