

DRAFT AGENDA – 7 MARCH 2000

3rd MEETING OF THE ALMA
JOINT RECEIVER DESIGN GROUP (JRDG)

NRAO, Charlottesville

Purpose of the meeting:

- Presentation of current status of overall receiver design
- Discuss issues of overall receiver design
- Presentation of ideas for frequency modules and mixer development
- Identify basic decisions affecting receiver design
- if possible, take baseline decisions about: optics configuration, dewar configuration, internal or external modules, space and shape of modules,

Monday, 20 March 2000, 09:00 – 17:00

- 09:00 Welcome (John Webber)
- 09:10 Overview, purpose of the meeting (John Payne)
- 09:20 Requirements and specs for ALMA receivers (Wolfgang Wild/John Payne)
- 09:35 ALMA receiver schedule (Wolfgang Wild)
- 09:45 Major design decisions taken (John Payne)
- 10:00 *Coffee break*

Update of design concepts

- 10:30 Optics plans (IRAM + others ?)
- 11:00 Dewar plans (RAL)
- 11:30 Cryocooler plans (RAL)
- 12:00 Local oscillator plans (~~NRAO~~ *Richard Bradley*)
- 12:30 *Lunch break*

Frequency band modules

- 13:30 Bands 3 and 6 (NRAO)
- 13:45 Band 9 (SRON)
- 14:00 Japanese proposal for a high frequency band (NRO)
- 14:15 Issues of ALMA receivers (John Payne/Wolfgang Wild + others)
- 14:30 SSB/DSB considerations (James Lamb)

15:00 Discussion
15:30 *Coffee break*
16:00 Discussion (continued)
17:00 Adjourn

Tuesday, 21 March 2000, 9:00 – 16:00

ALMA mixer/HFET development

09:00 Introduction (Wolfgang Wild/John Payne)
09:10 Sideband-separating ^{de band} mixers (Anthony Kerr)
+ 10
09:30 Band 7 (275 – 370 GHz) mixer development (Victor Belitsky)
09:50 Mixer development in France (Bernard Lazareff)
10:10 Band 9 (600 – 720 GHz) mixer development (Wolfgang Wild/Andrey Baryshev)
10:30 *Coffee break*
10:50 ^V Band 2/3 ^{+ IF} HFET/amplifiers (Marian Pospieszalski)
11:10 Open questions + TBD parameters (John Payne/Wolfgang Wild)
11:30 Discussion
12:00 *Lunch break*
13:00 General discussion, decisions, action items, next steps
16:00 Adjourn

Attached is draft 1 of the agenda for the Joint Receiver Development Group meeting here March 20 & 21. Please review and be prepared to discuss this after lunch (is 1:15 convenient?)

Possible changes which occur to me:

- (1) Request 20 minutes following discussion of sideband separating mixers for presentation of theory/results on internal IF amplifiers
- (2) Add to proposed talk on HFET front end LNAs the topic of external IF amplifiers
- (3) Start at 8:30 instead of 9:00 and increase time for discussion