

JRDG telecon

no Wild, ~~no Wild~~

1. Review of action items

Payne - working on heat loads

Plambeck - working on amplitude calibration

Webber - working on HFET/SIS I/F

Harman - produced memo on thermal link - wants comments

2. Optical design

Matt Carter: haven't made a lot of progress. Coordinating with

Harman, think they have a satisfactory resolution. Concerned about cross-pol; Willington has volunteered to look at it.

3. Dewar design: Harman - cartridge diameter back to 170mm;

4th plate really tight on area. Cartridge dimensions to be out soon. Doing thermal analysis of cartridge/link.

See e-mailed .pdf file of "squashed" dewar. Calculating displacements with 2nd mirror on 70K station.

4. Japanese bands 8 & 10

Sekimoto - will report at next meeting

5. Draft receiver specs

Webber: some of LO outside dewar should be part of rx

Lazareff: balanced mixer objective at high bands? Yes.

Payne: need some organization of waveguide hybrid efforts

6. Have Wade's document on production? No one has it.

Need to discuss - will send it around

Need draft ICD's for rx & parts. Payne will try to generate by July 30, 2000. Needs great detail.

Interface with M/C? 2 points of view: (1) smart box,

(2) Dumb box.

Opinions on M/C interface solicited. Belitsky: ^{their} rx has no intelligence - it's all in the controlling computer. Plumbek: same at BIMA. Emerson: regrets? Plumbek: NO - he does all the programming ~~and~~ himself; good to enable engineers to probe rx remotely. ^{Ellison} ~~Ellison~~: favor smart rx.

Webber: why have another CPU & operating system, when the work can be done by the antenna control computer? Emerson: makes maintenance easier. Ellison: need better definition of what needs to be controlled. Payne: need someone to write up the issue & make a recommendation-action item? Assigned to Ellison.

7. Rx section of Project Book is overdue

Wild & Payne draft of specs is first section of the chapter; they will decide on subsections & assign writing tasks.

Payne: need polarization analysis - need to resolve this issue.

8. Unassigned package: windows & IR filters (not in NRAO budget)

RAL (or ATC) and IRAM interested. NRAO will supply a report on work done to date on xtal quartz windows.