

Rapporteur of Presentations
NDSC Microwave Workshop 2003
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CALIBRATION ISSUES:

- Intensity calibration
- Frequency calibration
- Calibrating instrumental effects
- Calibrating atmospheric effects
- Retrieval

INTENSITY CALIBRATION:

- Which material for load (reflectivity, absorption, thermal inertia)
- Hotload: - What is T?
 - Ambient load vs. T-stabilisation
- Coldload:* - What is T? (How to measure?)
 - (Influences of pressure, quality...)
 - Sinking N_2 level, boiling surface
 - + Water uptake (lid, liquid)
 - Using the sky
- T_b vs. T_{RJ} vs. I vs. T_{phys}
- Calibration cycle:
 - What order of positions
 - How long on each "
 - Intervals of reference load validation (T_{sky})
- Filter shape, center frequency

INSTRUMENTAL EFFECTS: (BASELINES)

- Balancing: What ref. beam attenuation?
 - Material
 - Orientation
 - Plexiglas water uptake
 - Refraction effects of objects who partially obstruct a beam
 - Variable internal reference load
- Elevation*: -What angles for ant. and ref.?
(tradeoff I vs. error)
 - How to extl. measure the angle?
 - Adjust ant. or ref. beam?
- Q-0-Absorber:
 - Applications
 - Rooftop mirror problems
- Phase scrambler: to wobble or to model?

ATMOSPHERIC EFFECTS:

- One layer isothermal troposphere vs. modeling of the troposphere?
- How to determine z_{trop} and \bar{T}_{trop} ?*
- Temperature profile:
 - How to obtain them
 - Error on retrieval

RETRIEVAL:

- Spectral line parameters
- calibration of the spectra or rather through forward model?