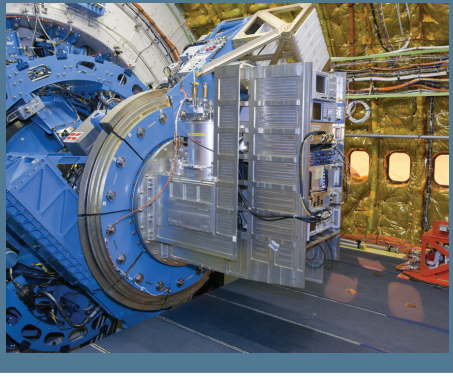
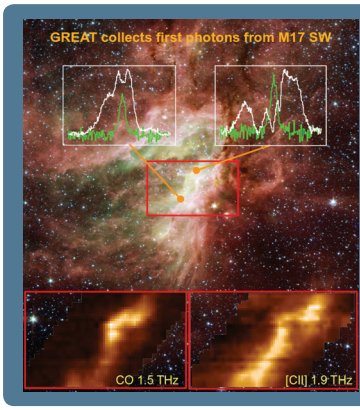
GREAT

GERMAN RECEIVER FOR ASTRONOMY AT TERAHERTZ FREQUENCIES



1. IR Heterodyne Spectrometer (GREAT works like a very high frequency radio receiver detecting light waves not light particles)
2. Range: 60-200 microns
3. Dual channel instrument
4. Observations in three different frequencies:
   - Low-frequency to map fine structure lines of ionized nitrogen and carbon
   - Mid-frequency to study deuterated molecular hydrogen
   - High-frequency to examine the transition of atomic oxygen at 63 microns



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www.sofia.usra.edu/Science/instruments/instruments_great.html

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