

Planck-LFI

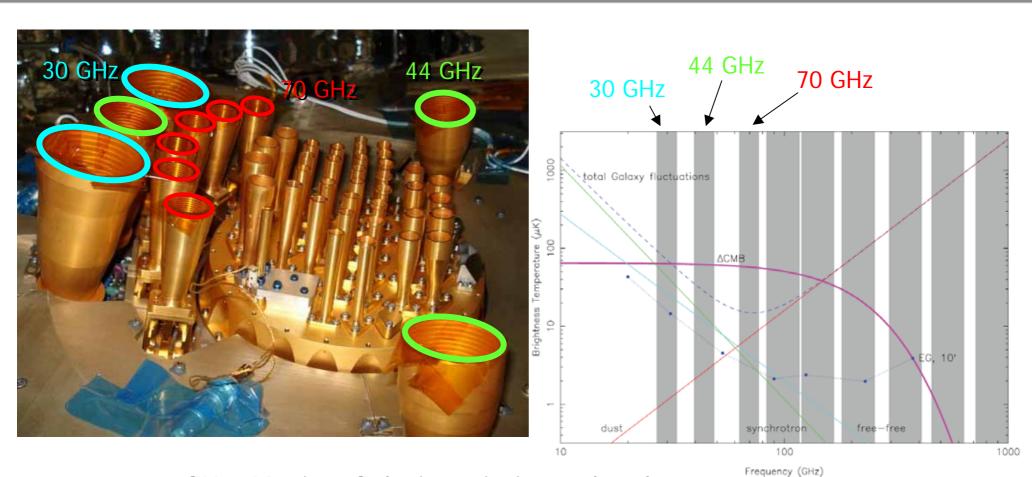
Low Frequency Instrument

Mapping the first light in the Universe

Marco Bersanelli, University of Milano Darmstadt 19 March 2009

Planck-LFI: Wavelength range



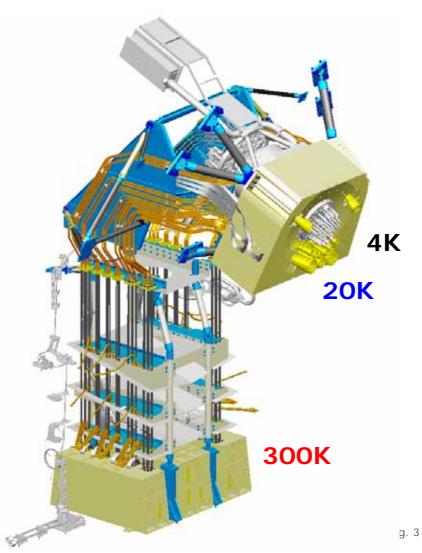


30, 44 GHz: Monitor Galacic emission at low frequency

70 GHz: Cleanest window for CMB

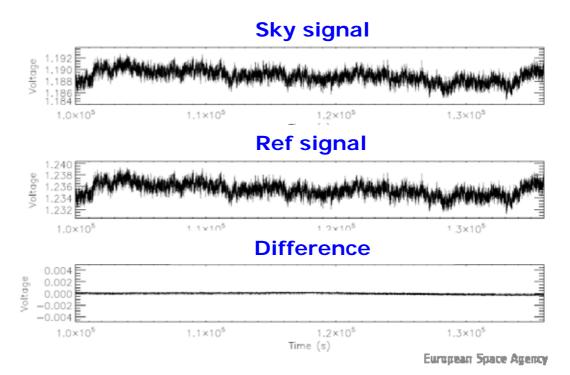
Planck-LFI: Differential Radiometers





Unprecedented performances:

- Sensitivity ($\Delta T/T \sim 3 \times 10^{-6}/pix$)
- Stability (f_K ~ 10⁻² Hz)





Planck-LFI: Instrument Calibration



