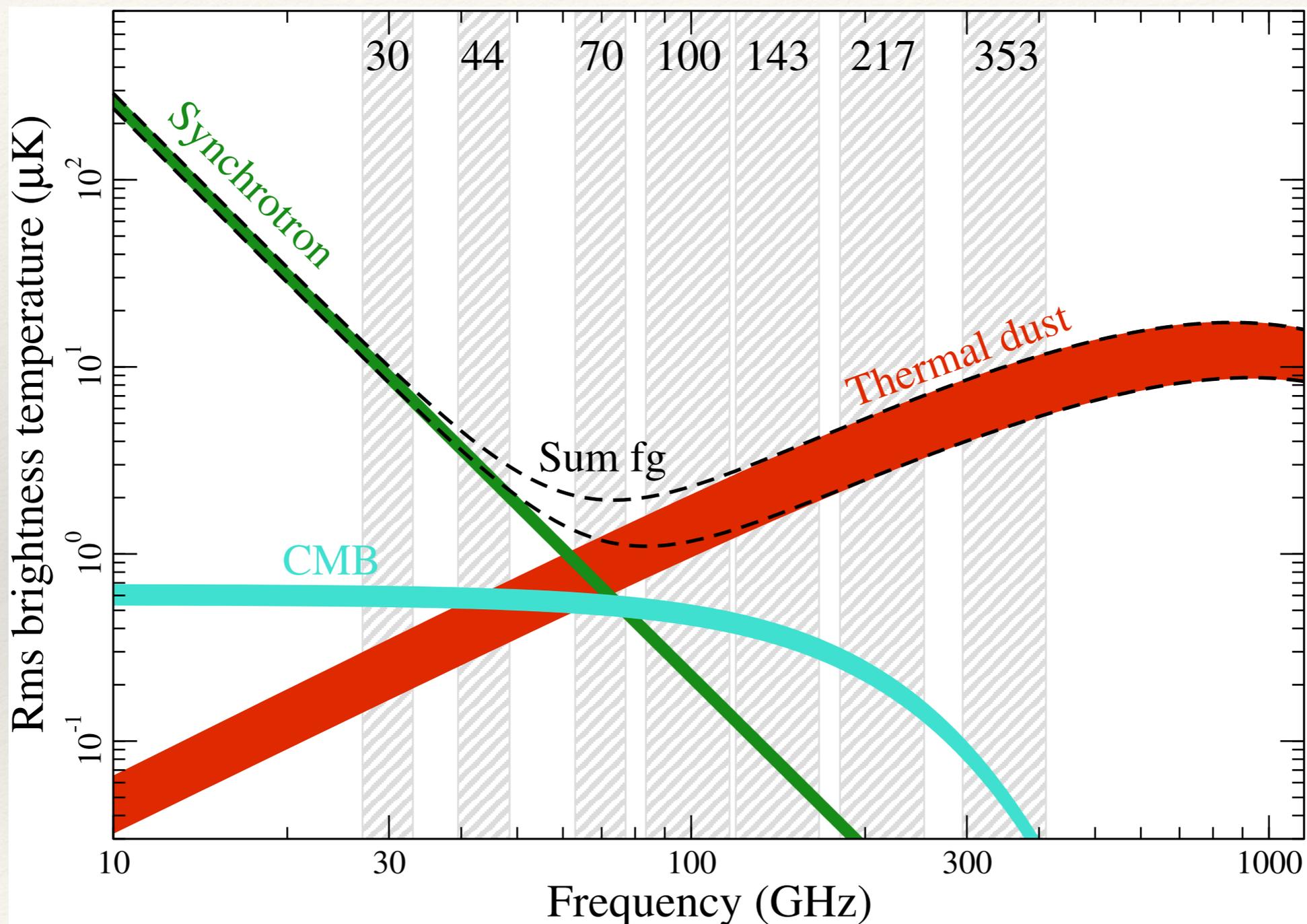


Reijo Keskitalo, Lawrence Berkeley Lab

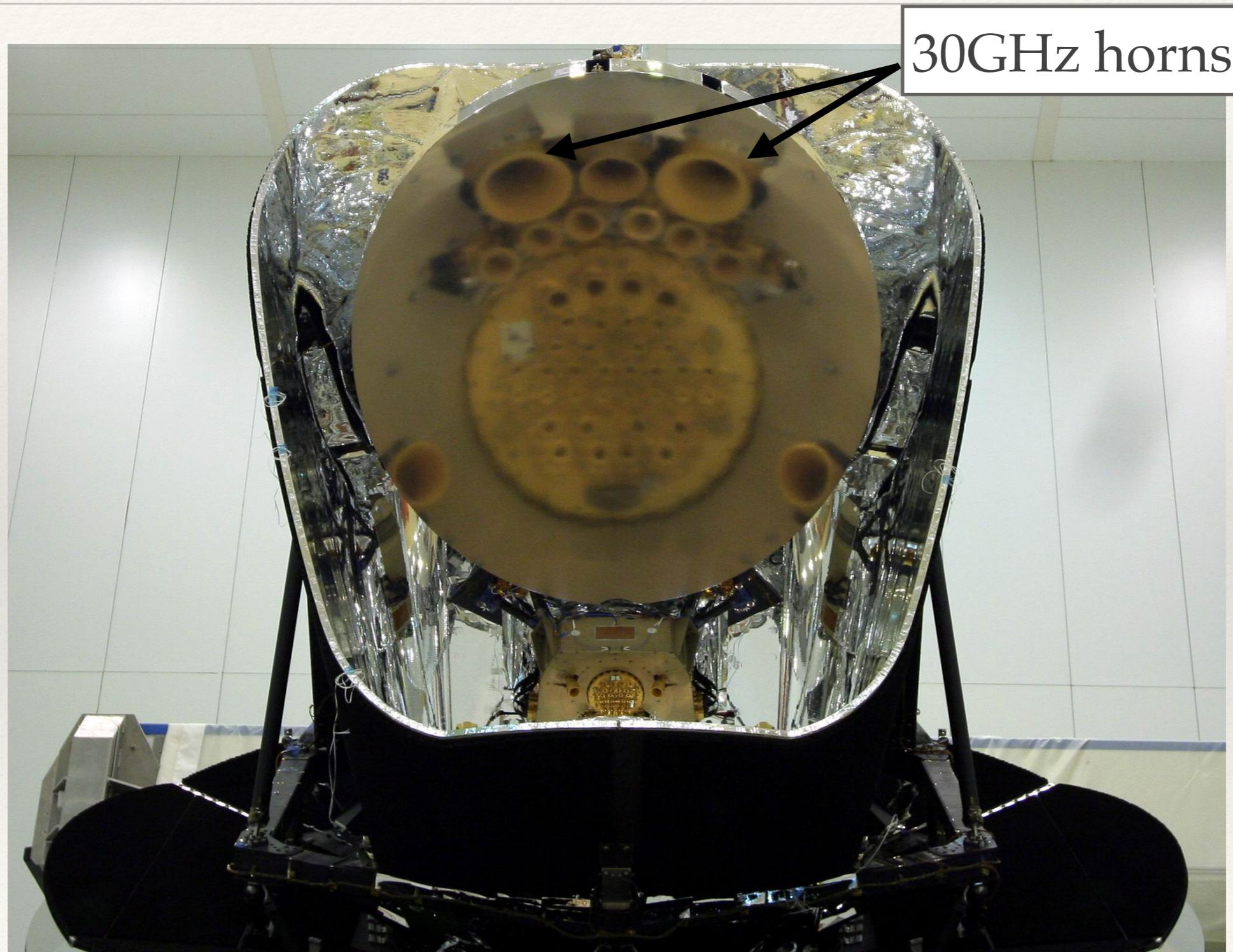
Maximize redundancy

A lesson learned from Planck
data analysis

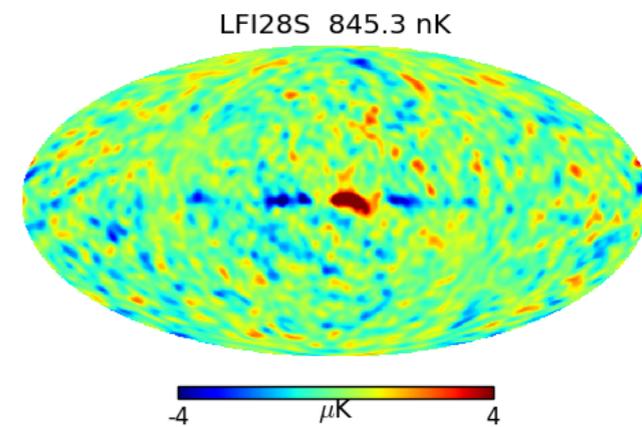
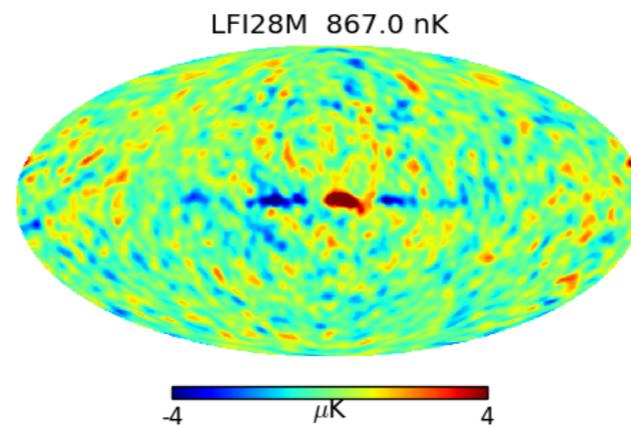
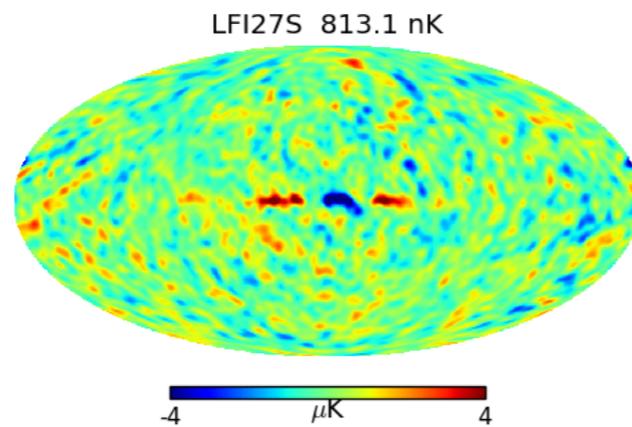
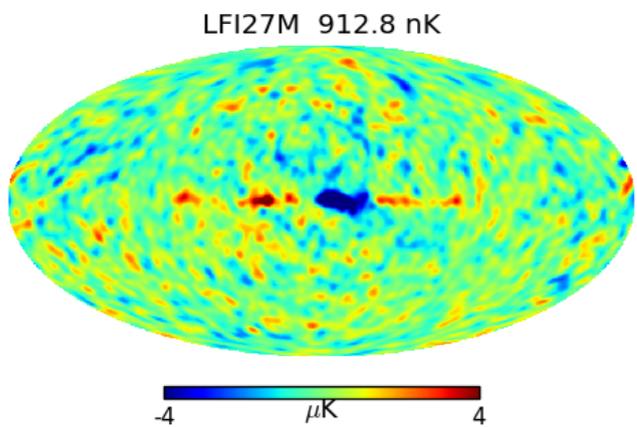
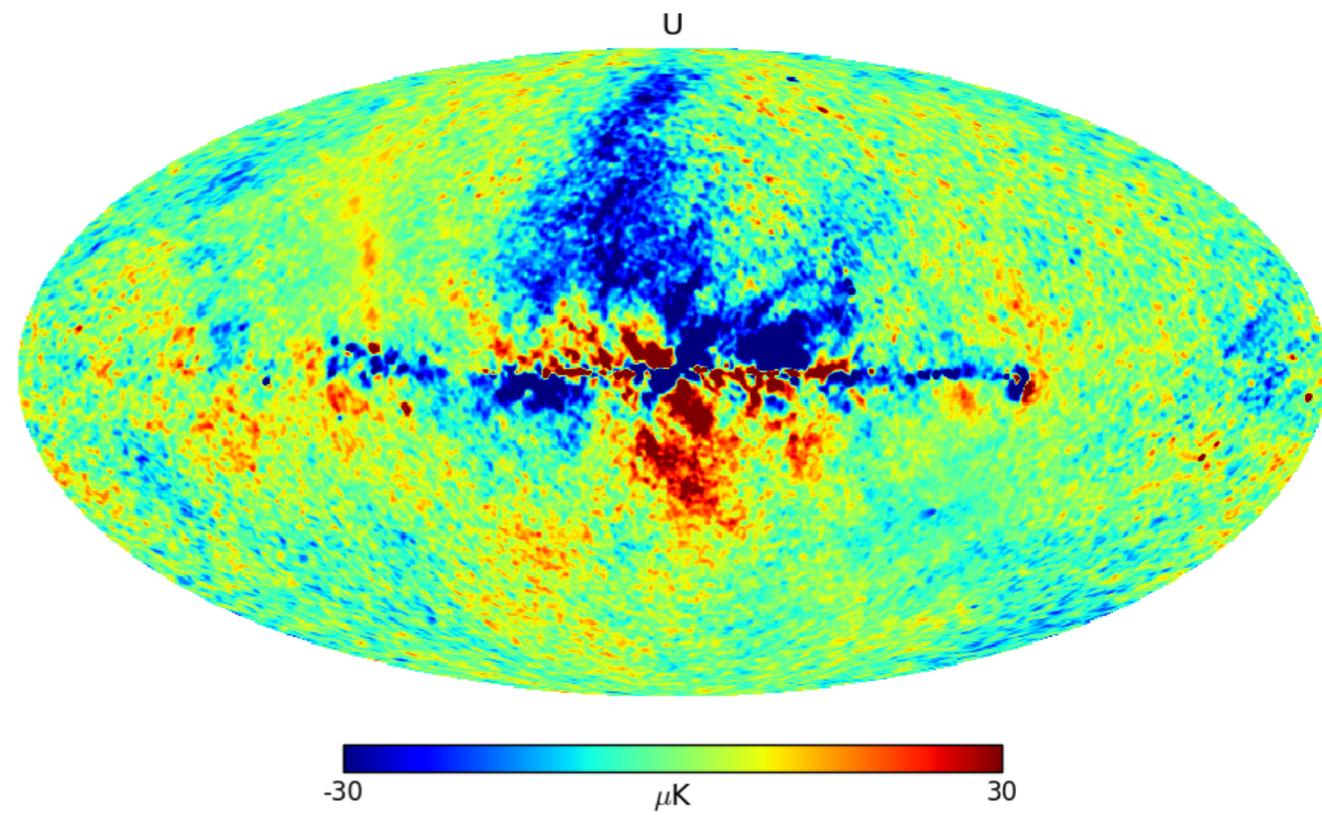
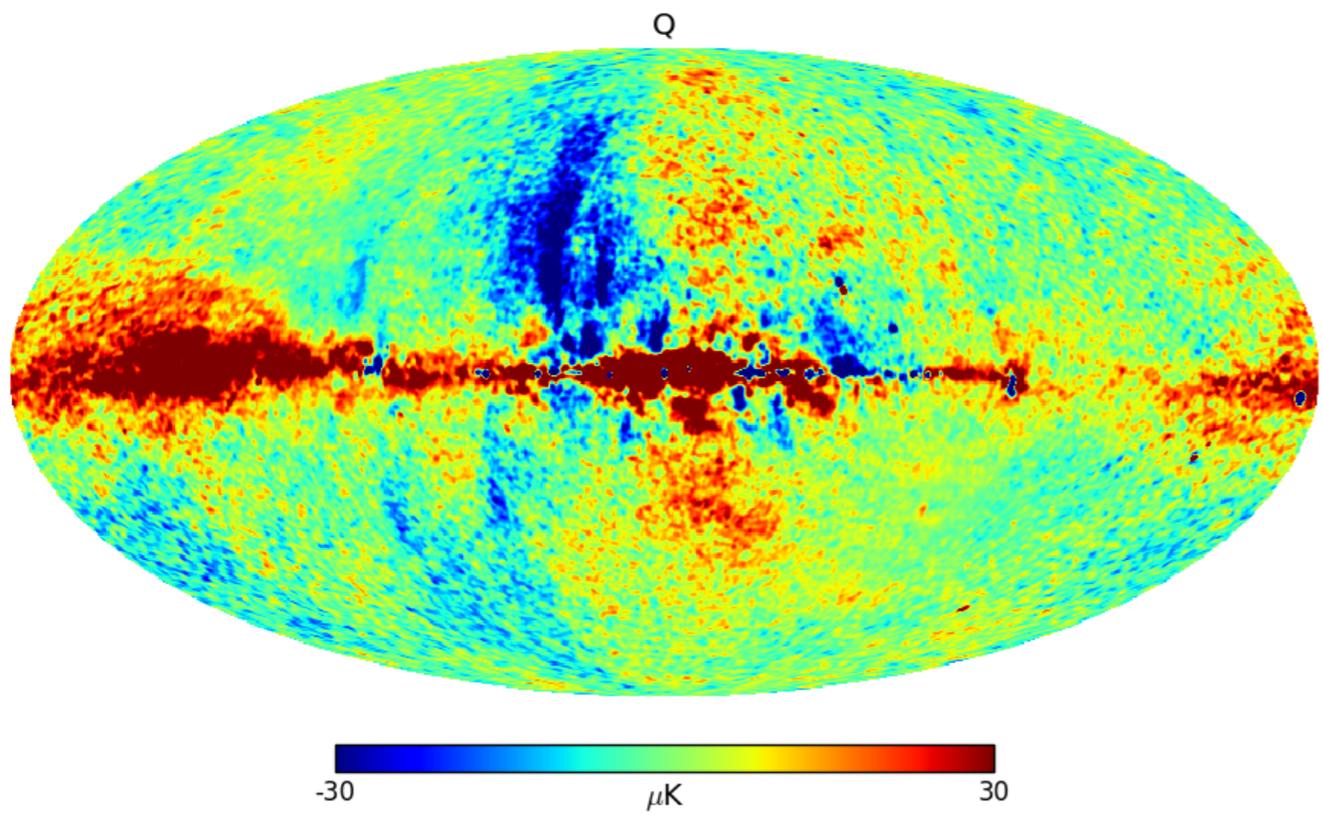
The case of Planck synchrotron channel(s)



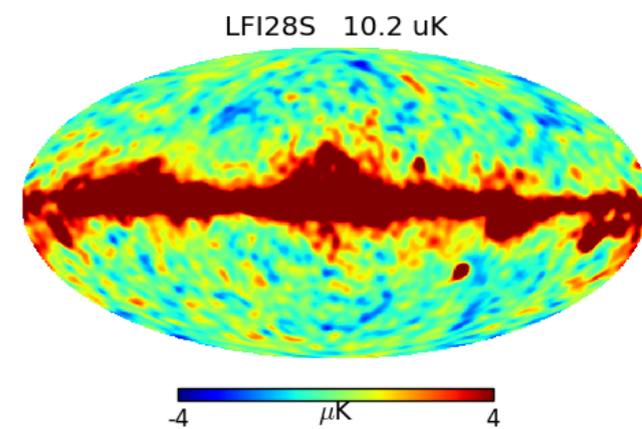
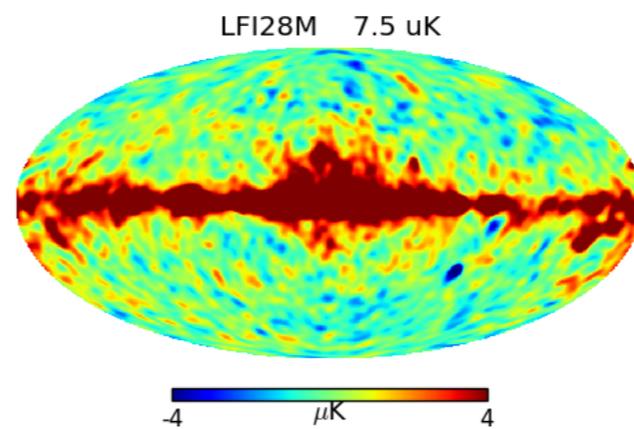
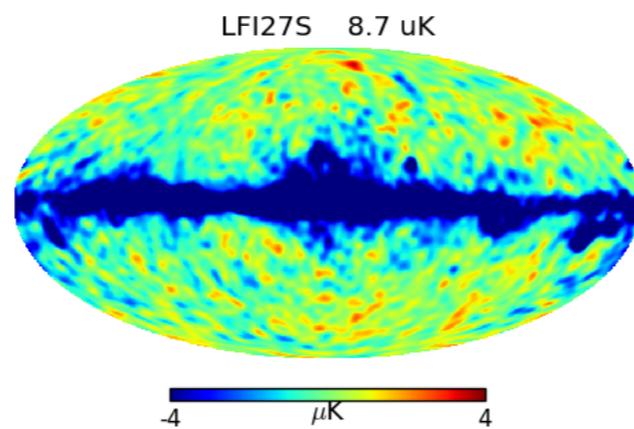
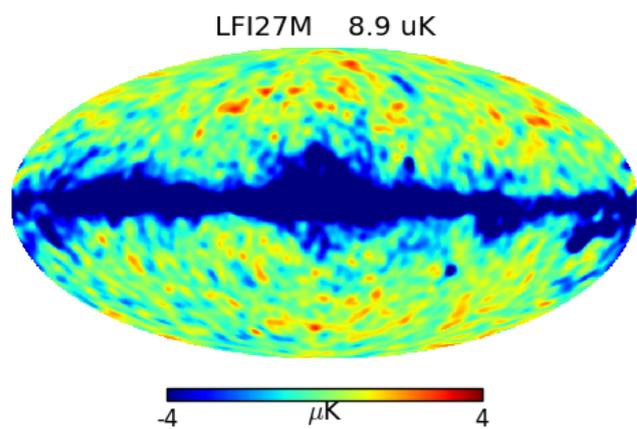
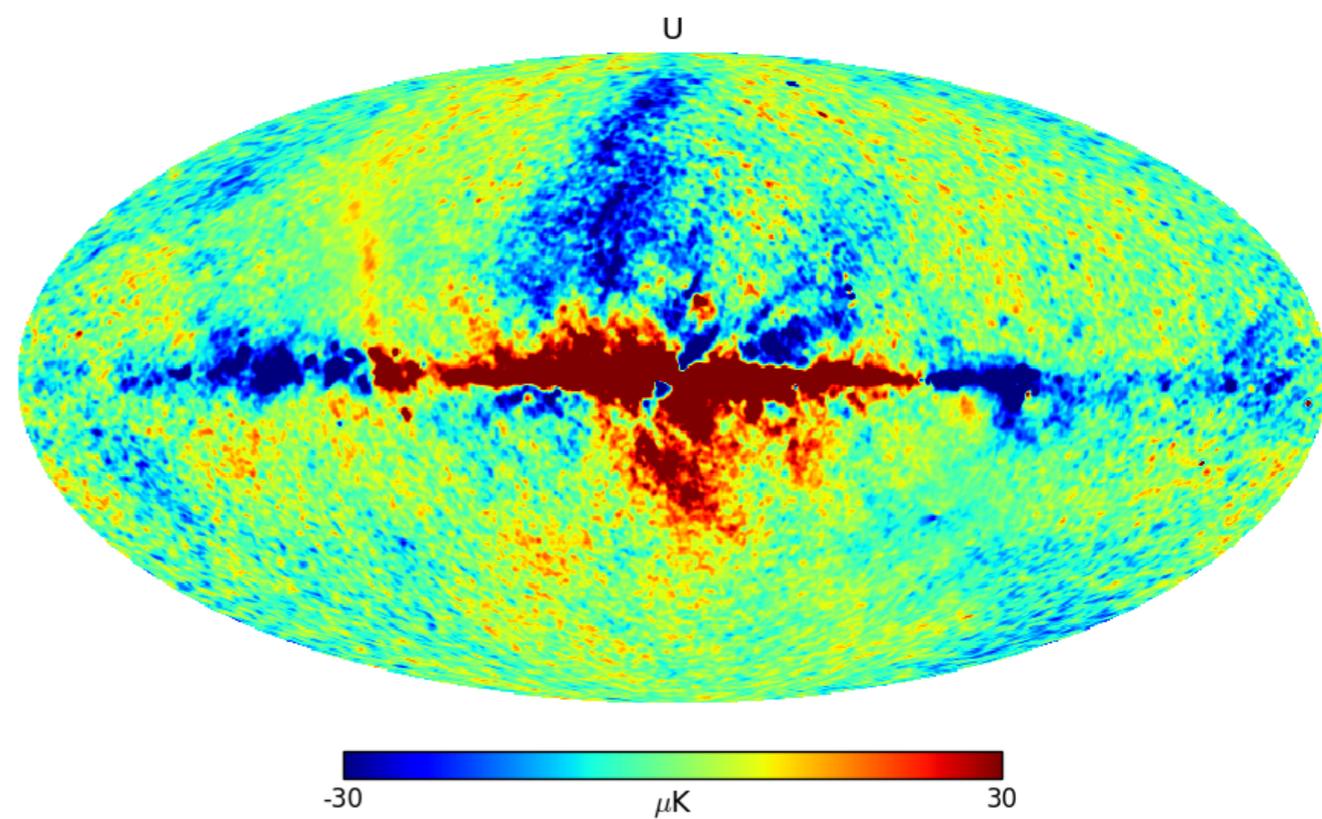
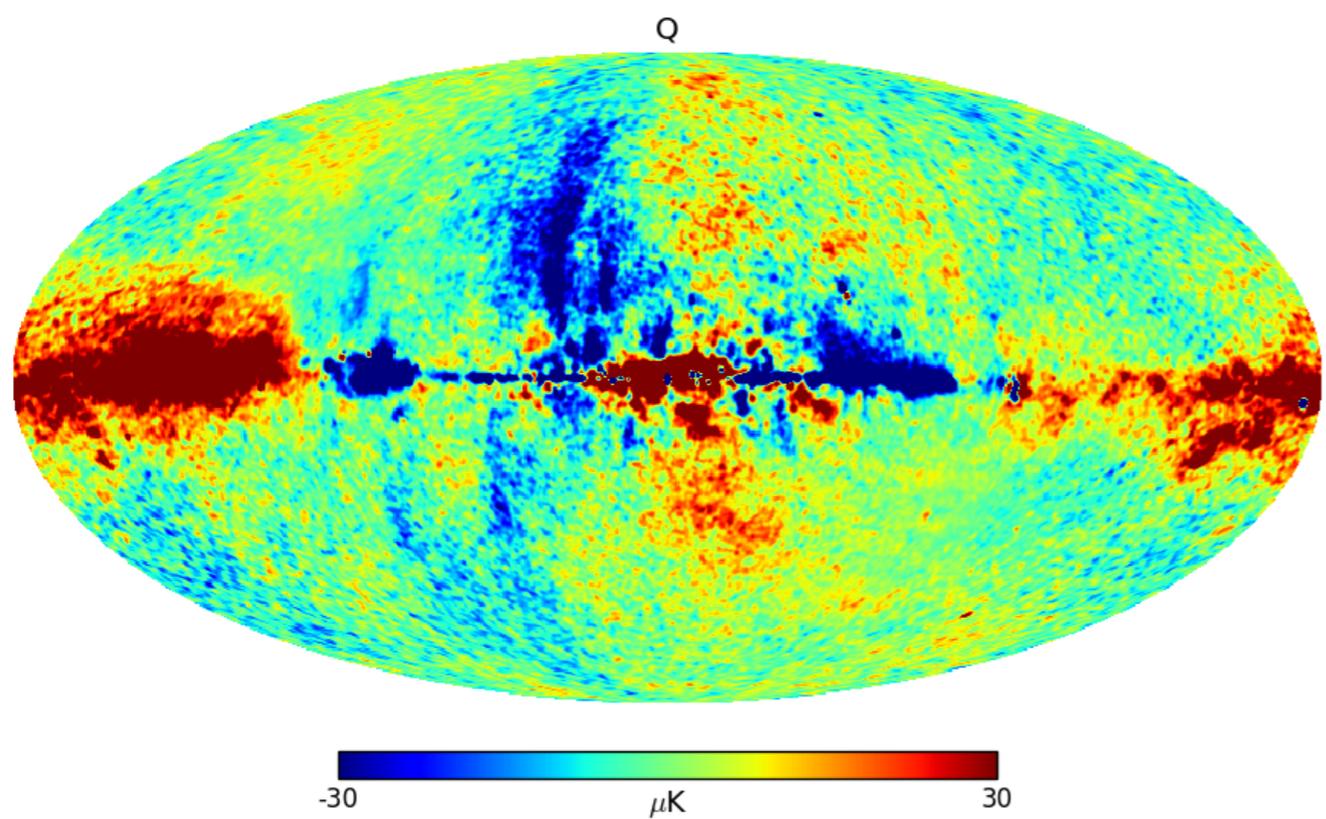
Two 30GHz horns, 4 polarized radiometers



Simulated processing: calibration and bandpass mismatch



Ignore bandpass mismatch



The lesson

Design for redundancy: make the experiment up from independent units.

- ❖ detector sets, horns, **individual detectors**
- ❖ years, surveys and **sub-survey maps**