

Chapter 1

QUBIC Forecasts

1.1 Studied Cases

- 1.1.1 CMB without foregrounds: QUBIC raw sensitivity
- 1.1.2 CMB + Dust (d0, d1, d6, ...): Simple forecasts
- 1.1.3 CMB + Dust (d0, d1, d6) + Synchrotron (s0, s1): Realistic forecasts

1.2 Results

- 1.2.1 Compare QUBIC configurations
- 1.2.2 Dual bands without spectral imaging: “Imager case”
- 1.2.3 Dual bands with spectral imaging: “BI case”
- 1.2.4 Ultra-wide band: “Extreme BI case”
- 1.2.5 Successive mono-band case: “Conservative case”

1.3 Compare QUBIC’s map-making algorithms

- 1.3.1 FMM: Cross-spectra Analysis
- 1.3.2 NN-FMM: Cross-spectra Analysis
- 1.3.3 CMM: Parametric Analysis
- 1.3.4 NN-CMM: Parametric Analysis