Pico

Commander updates 20.8.2020 Ragnhild Aurlien and the Oslo group

Method

- Model 90.91 with an easier sky model and r = 0.003
- Maps smoothed to 60 arcmin and nside 256
- Optimized 10 parameters using Commander1
 - CMB (*A_{cmb}*)
 - One dust models (A_{dust} , T_{dust} and β)
 - Synchrotron model ($A_{sync}, \beta_{synch}, C_{synch}$)
- Resulting CMB map: masking the galaxy plane (mask covers 21% of the sky) and using Wiener filtering to fill inn the CMB
- Using anafast to create a power spectrum



Difference between input CMB map and CMB map generated by Commander

CMB





Power spectrum for r = 0.003

- Red: Power spectrum from clean CMB map used to generate simulations
- Orange: Power spectrum from CMB map from Commander after infilling process



Work in progress

- Optimizing Commander runs for 90.91
- Finding a good way to estimate r
- Setting up fitting for AME for sky model 90.92