

Pico

Commander updates 9.12.2021

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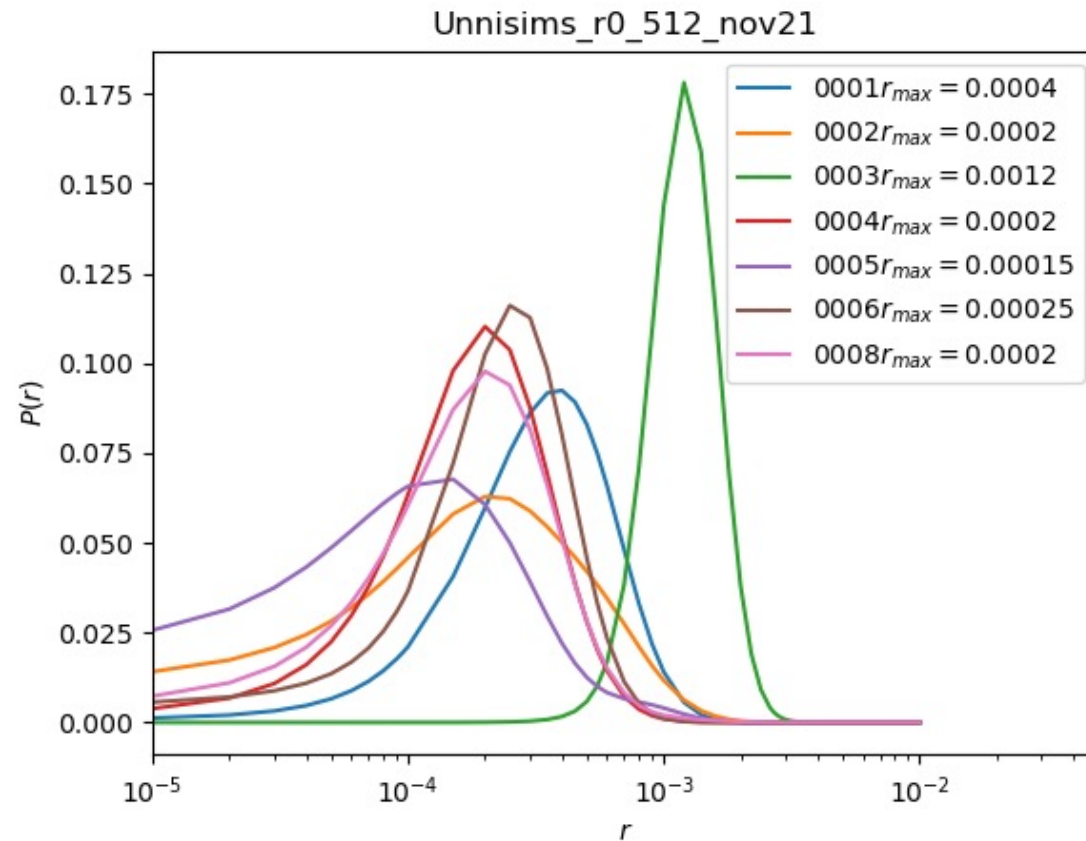
90.91

- Running Commander1 fitting 6 parameters pr pixel
 - CMB (A_{cmb})
 - One dust model ($A_{dust}, T_{dust}, \beta_{dust}$) (nside 256)
 - Synchrotron model (A_{sync}, β_{synch}) (nside64)
- 10 simulation sets with $r = 0$ and 10 with $r = 0.003$
- Masking 25% of the sky
 - Mask based on the χ^2 map
- ~ 100 iterations with infilling inside the mask (pr simulation set)
- Blackwell-Rao estimator for estimating r

r-estimation for each simulation

From last week

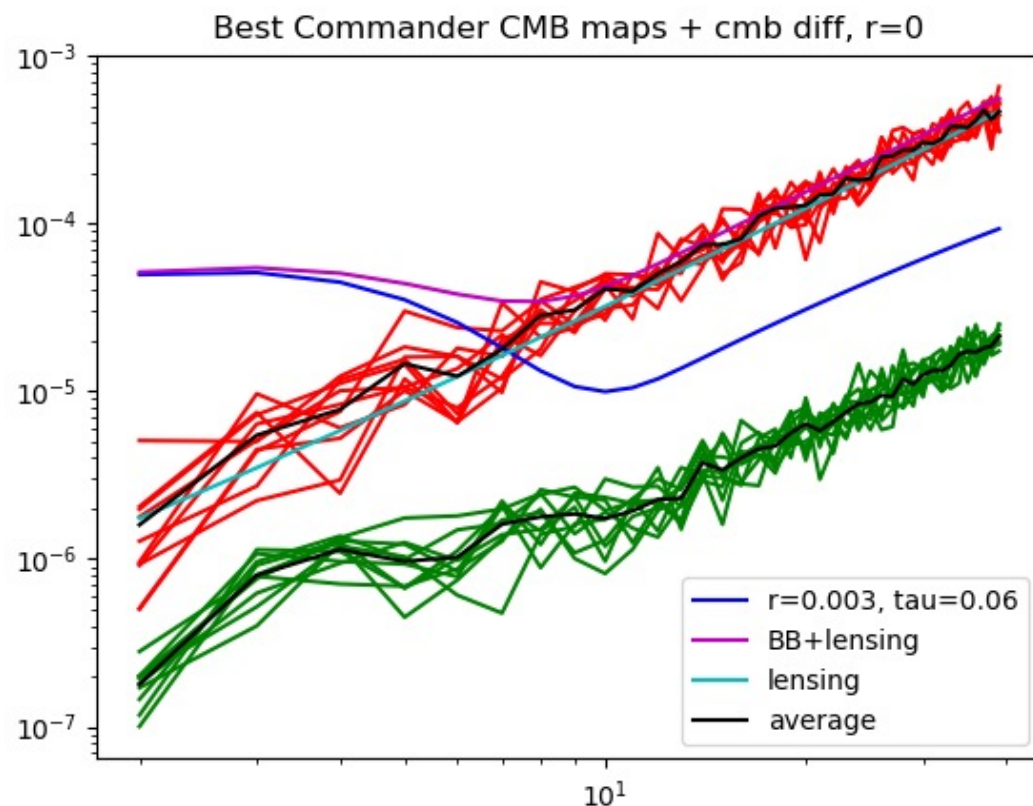
0003 has a very high input CMB value



Powerspectrum of CMB maps and CMB difference maps

$r = 0$

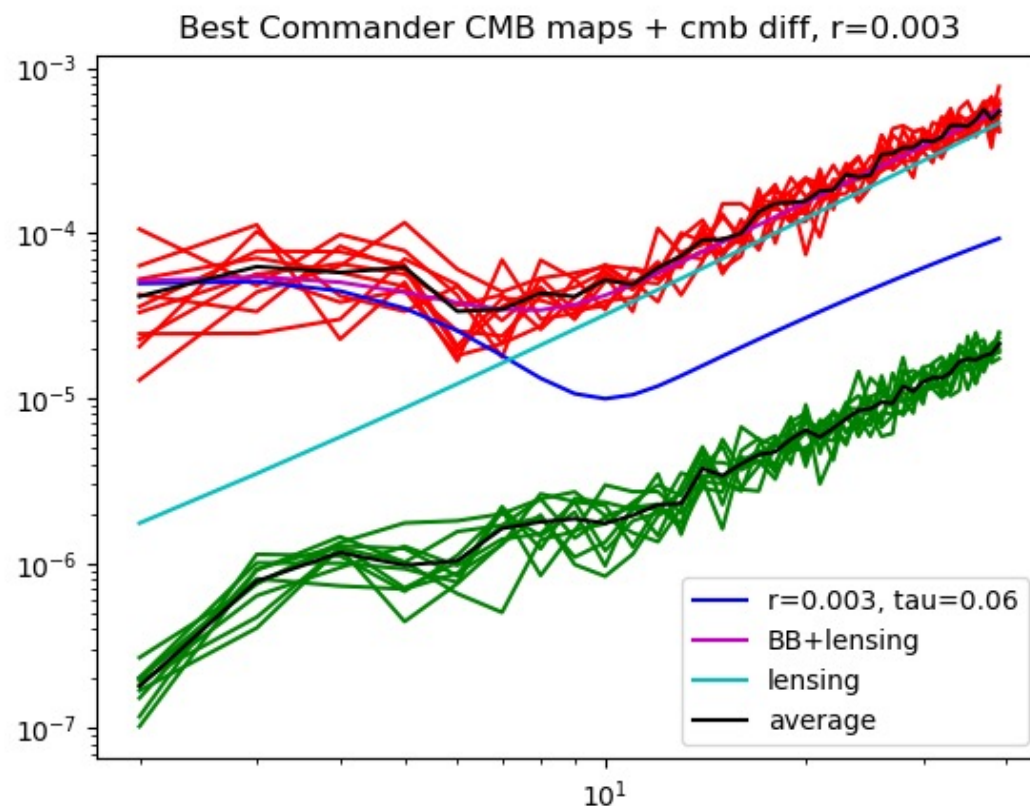
- Unmasked maps
- Best CMB map for all 10 simulation set (red lines)
- Subtract input and output CMB map (green lines)
- No masking or infilling



Powerspectrum of CMB maps and CMB difference maps

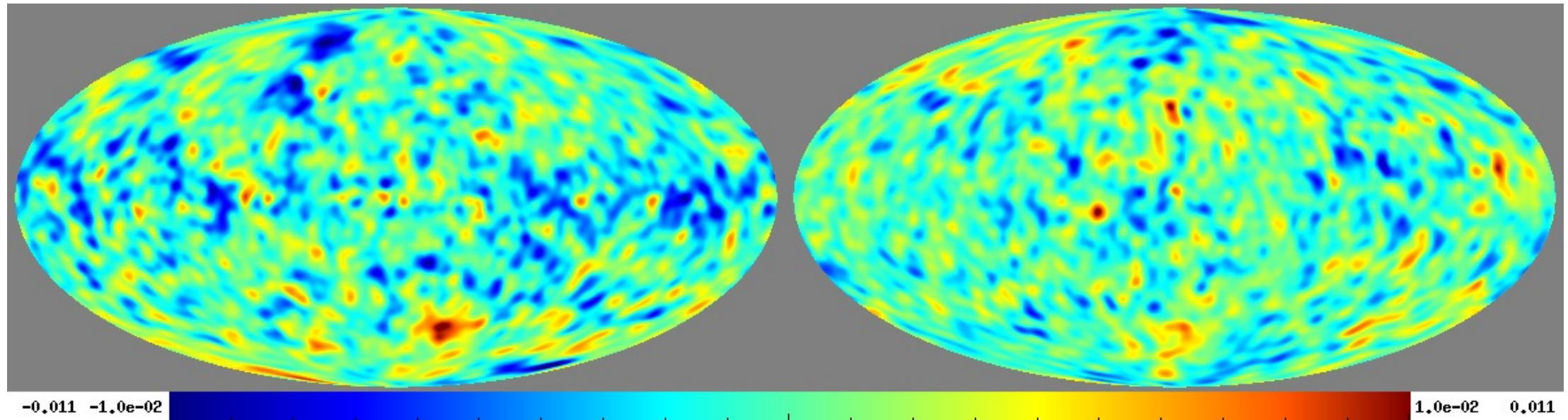
$r = 0.003$

- Unmasked maps
- Best CMB map for all 10 simulation set (red lines)
- Subtract input and output CMB map (green lines)
- No masking or infilling



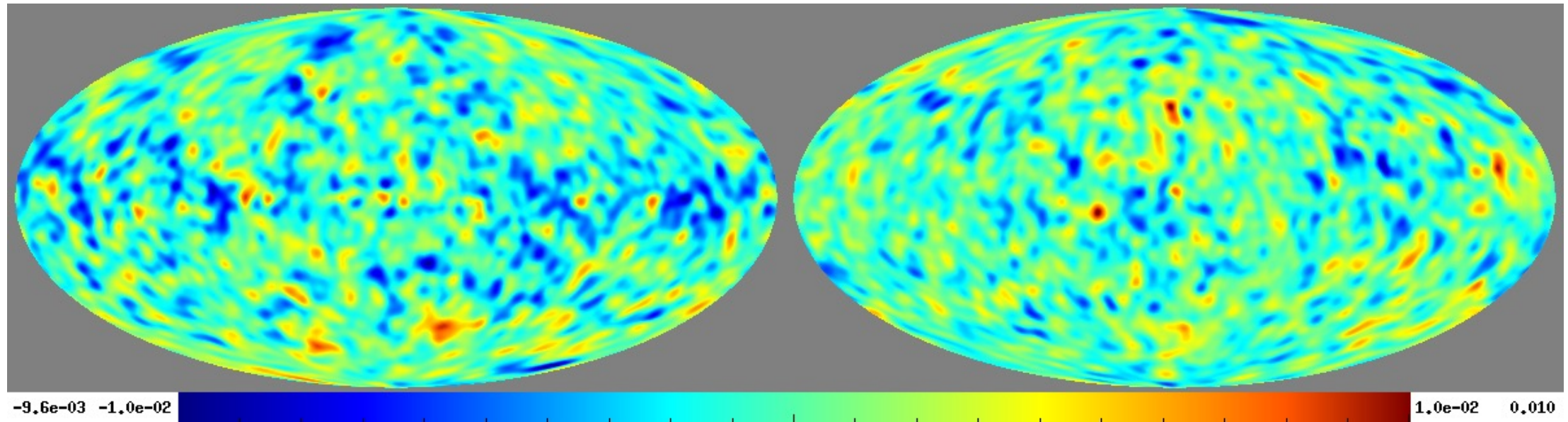
CMB difference map (output – input)

From last week



CMB difference map (output – input)

With new priors



Work in progress

- Run with different priors to further optimize output
- Component separation for 90.92 is in progress