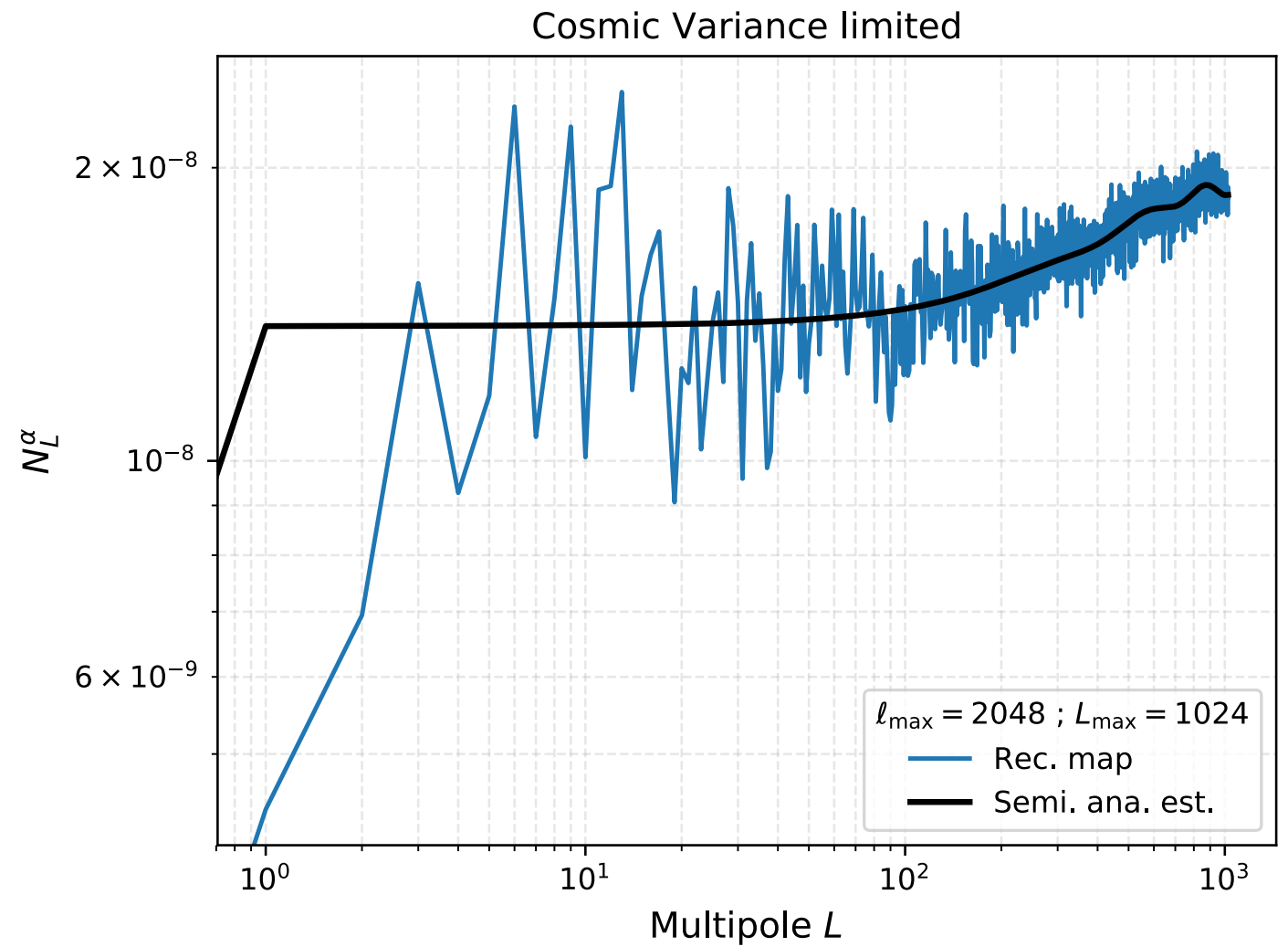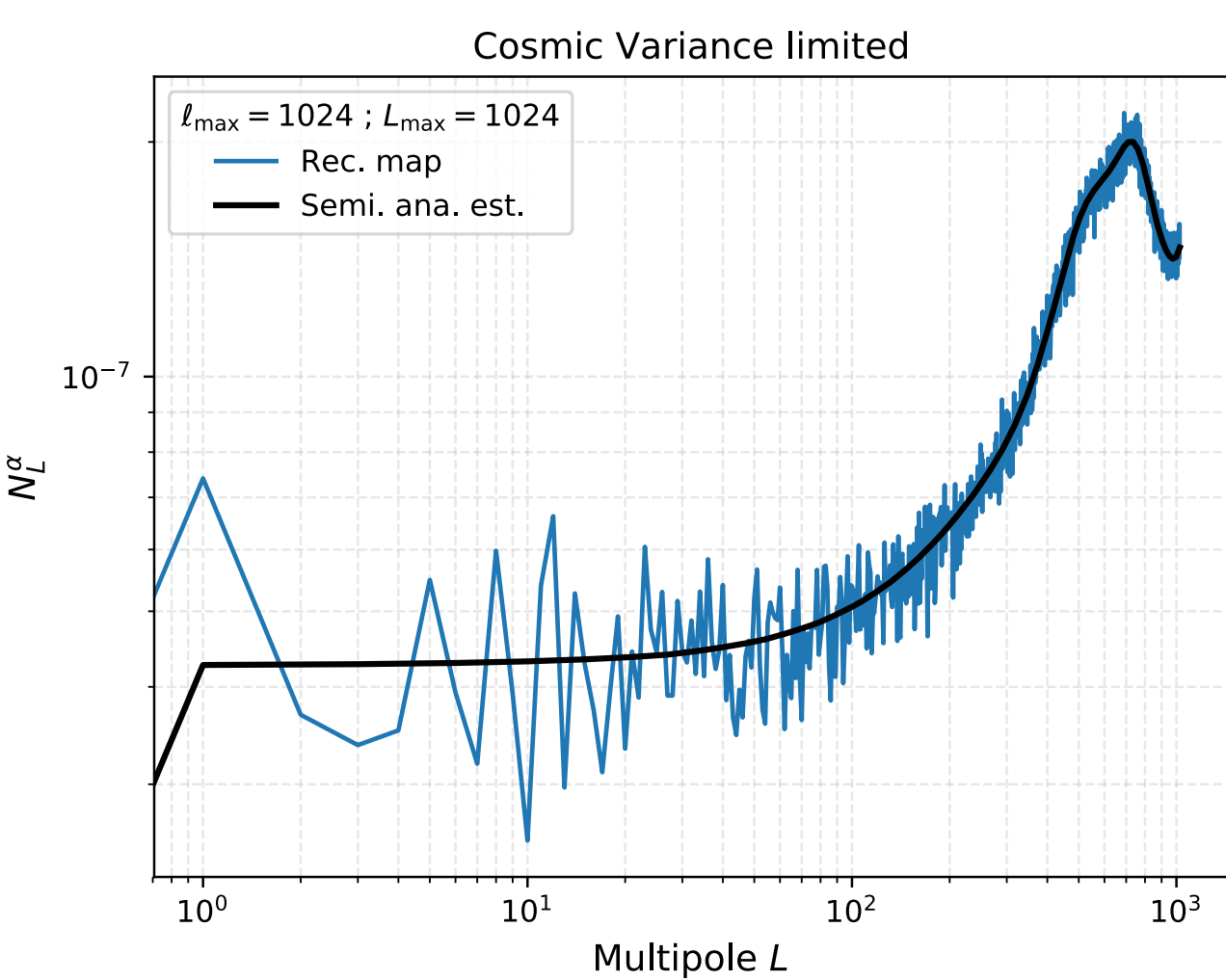# QE for birefringence

Aditya Rotti, JBCA

Whats in these slides?
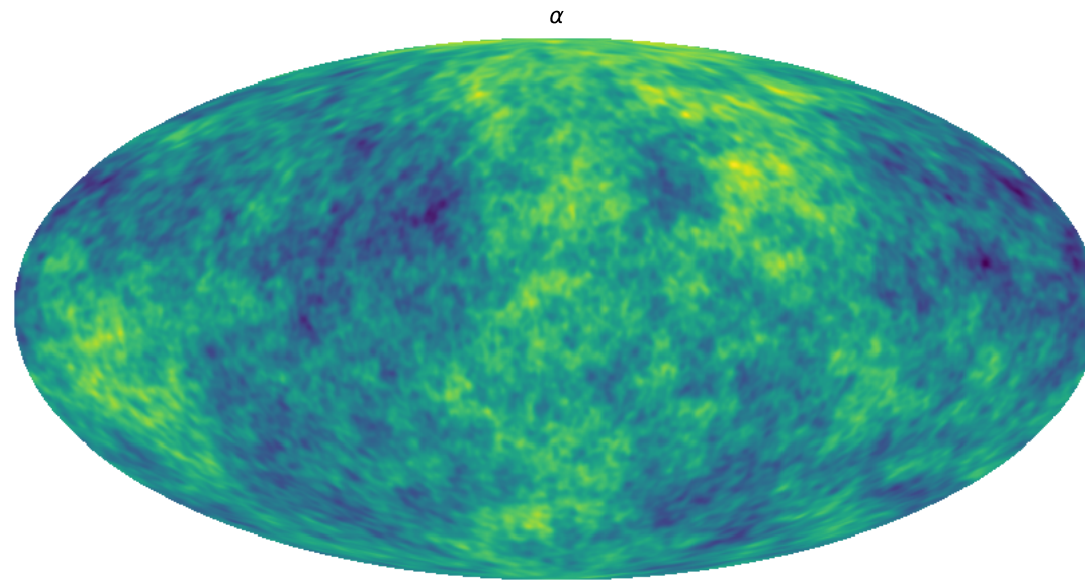
- **Optimal QE null tests**
- **Comparison of EB and TB estimator in the CV limited case**
- **Reconstruction of α map from the two estimators**
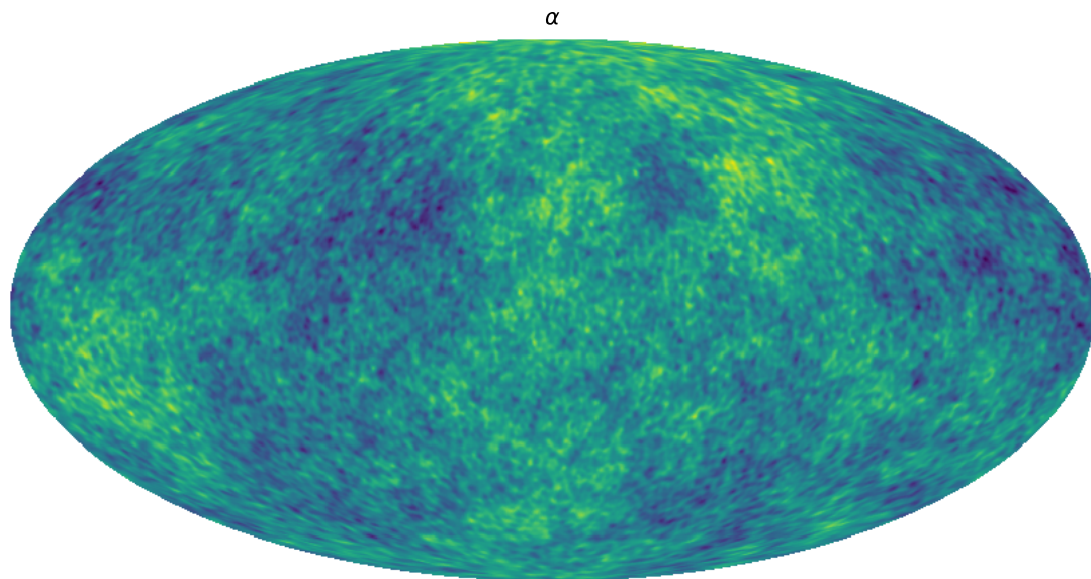- **All tests carried out for $\ell_{\max} \in [1024, 2048]$ with $L_{\max} = 1024$**
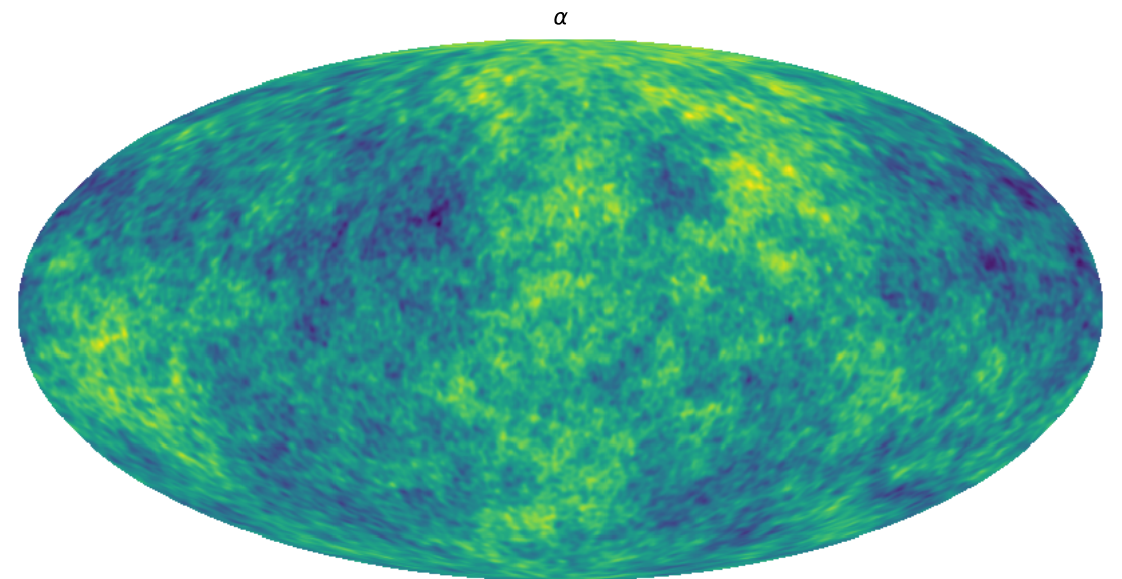
EB

Reconstruction noise comparison

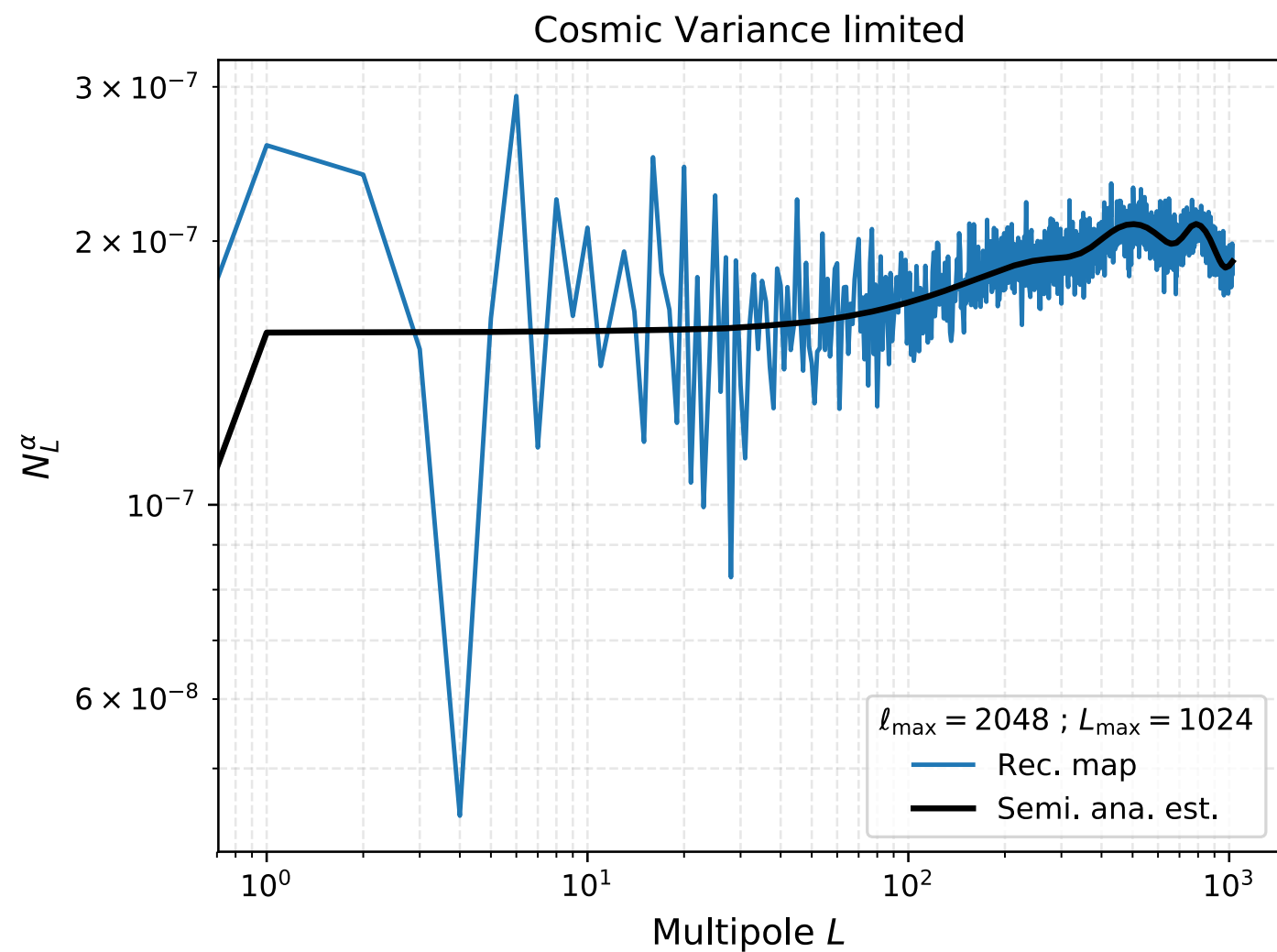# α reconstruction

α

-0.0365498   0.0342584

True

α

-0.0450961   0.0485037

$\ell_{\mathrm{max}} = 1024$

α

-0.0400241   0.0350505

$\ell_{\mathrm{max}} = 2048$

TB

Reconstruction noise comparison
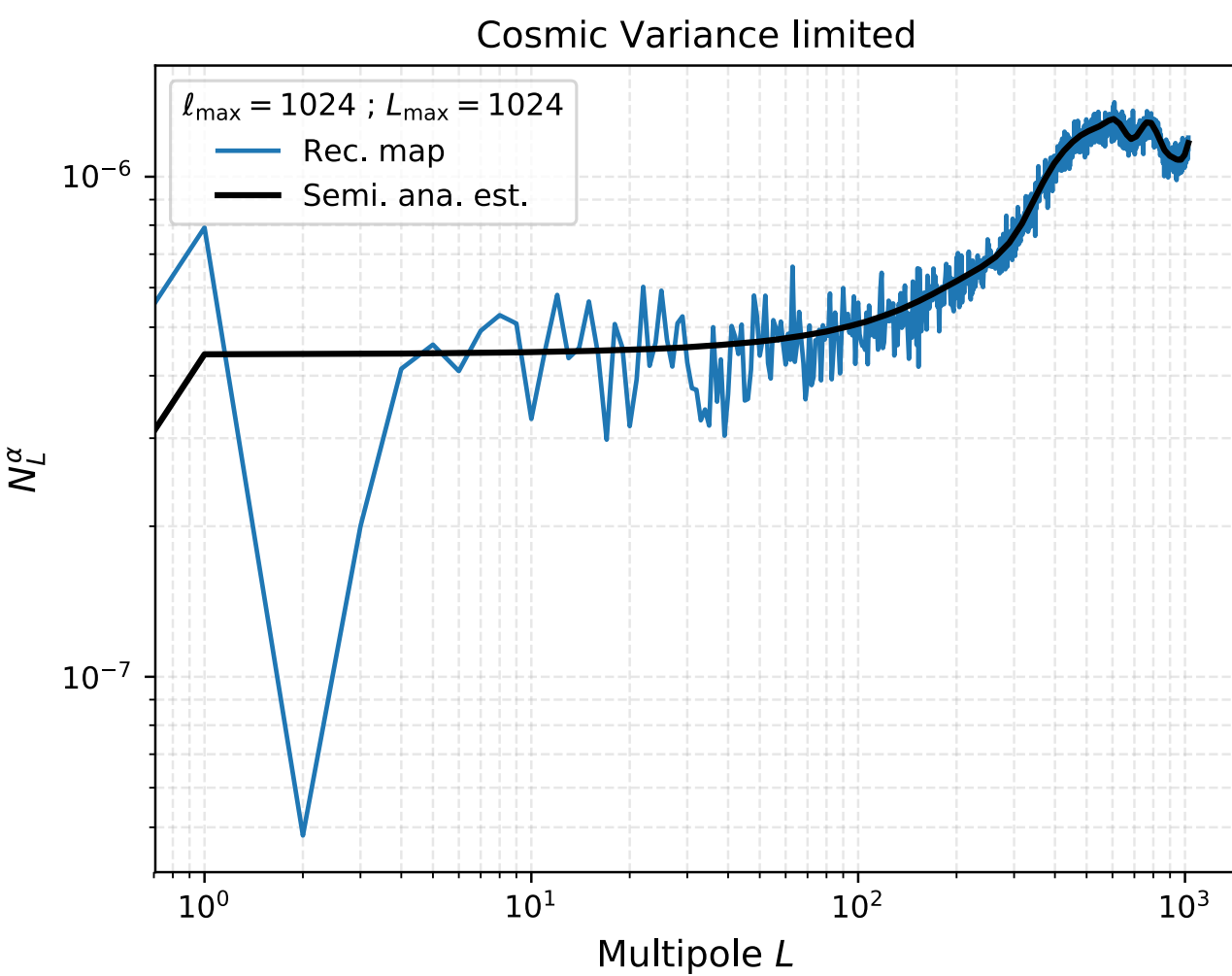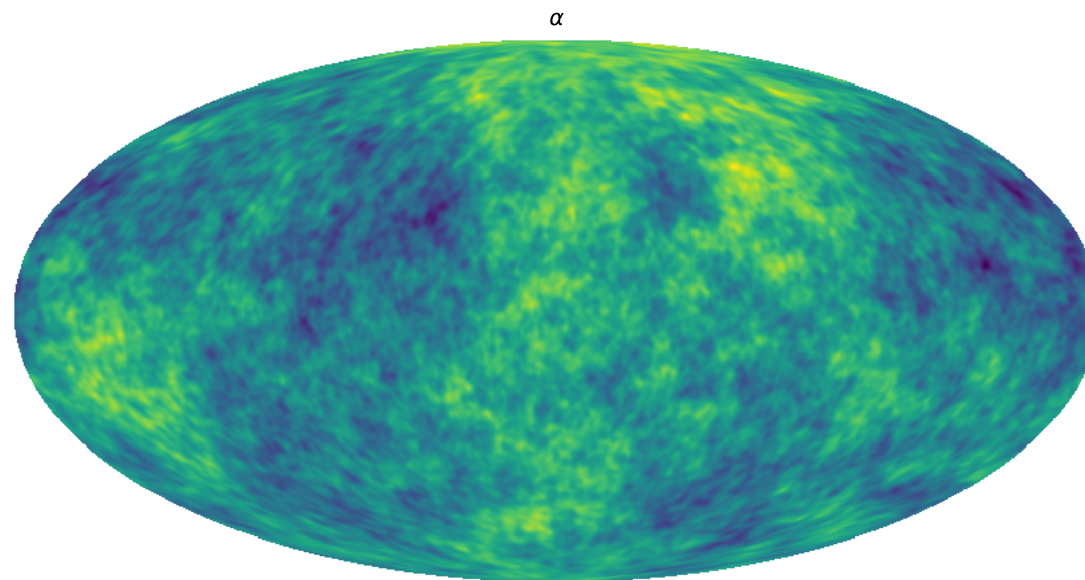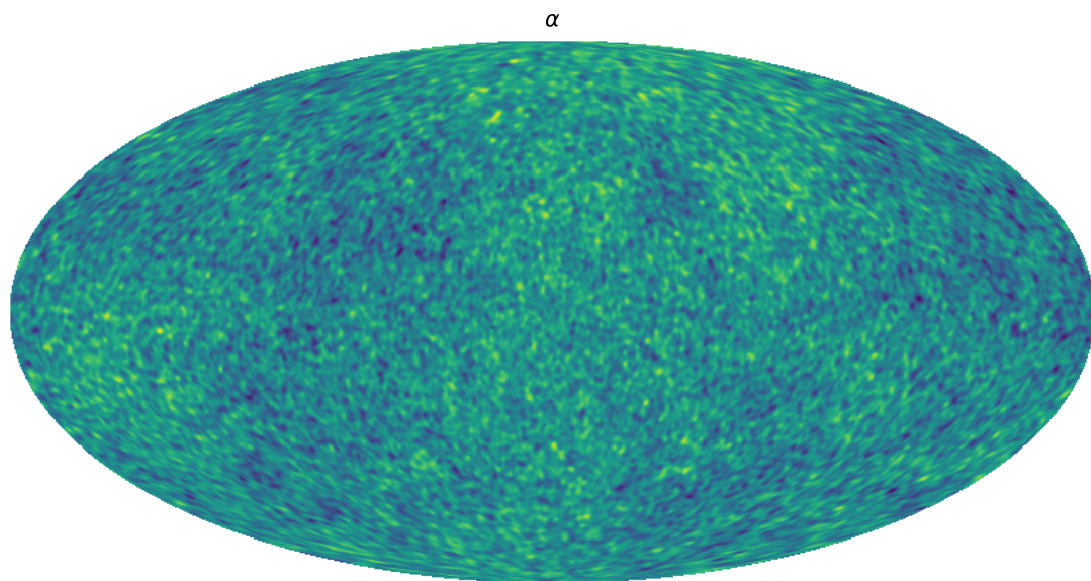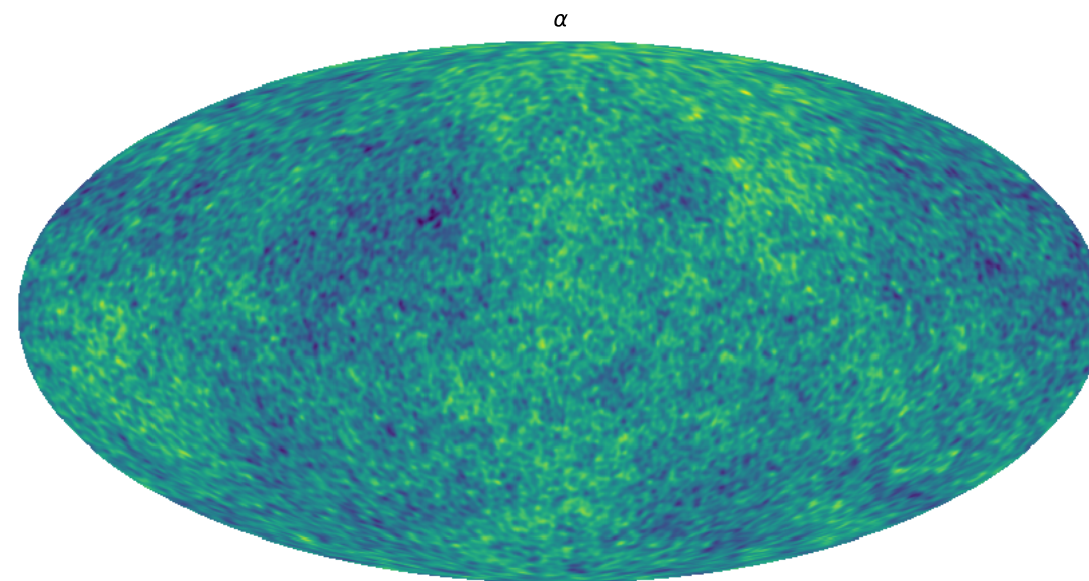
α reconstruction

Compare EB vs. TB

Reconstruction noise comparison

C_L^α recovery