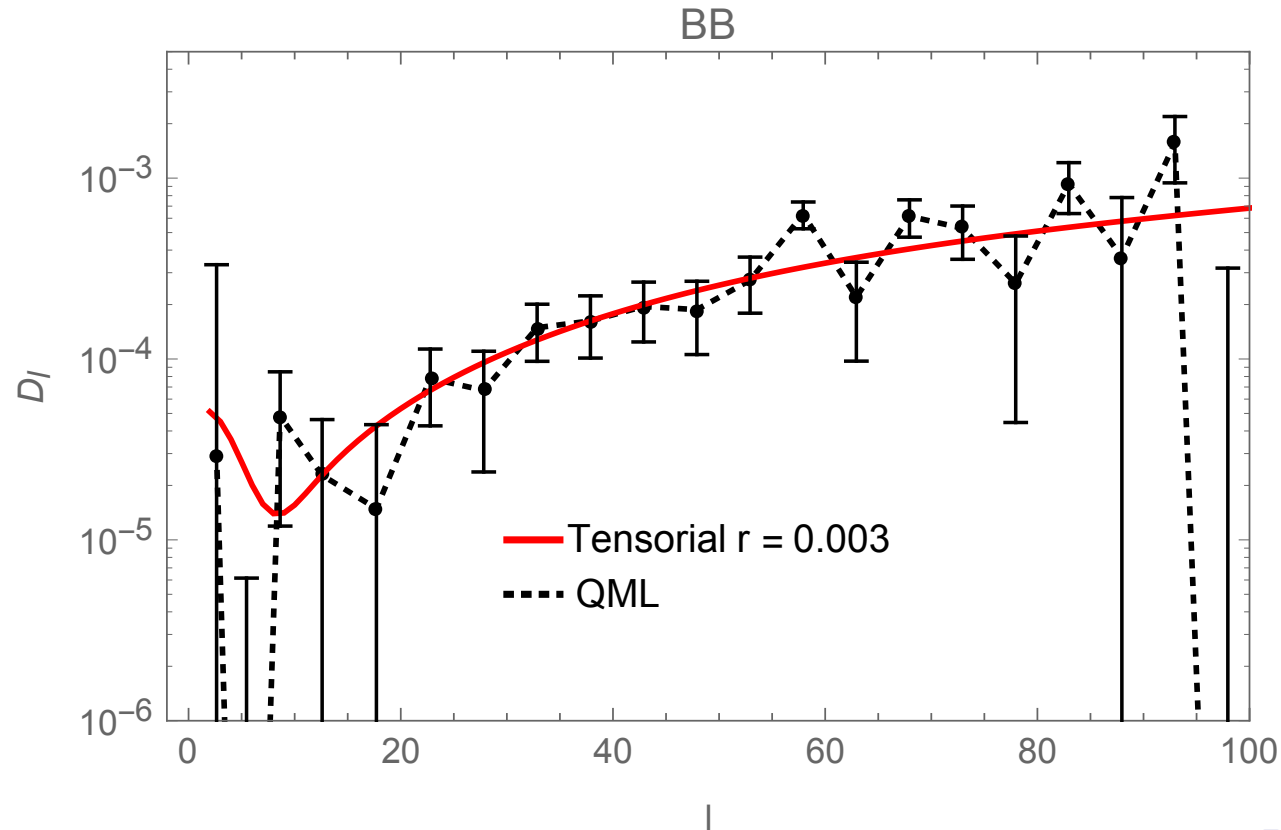


Estimation of r from Sevem maps

R.B. Barreiro, D. Bilbao-Ahedo,
E.Martínez-González, P. Vielva

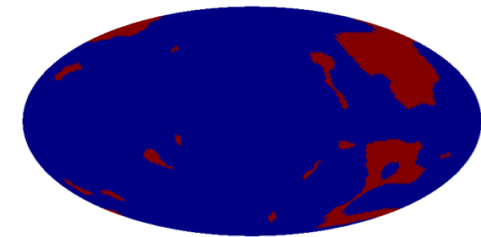
14th February 2019
Updated: 21st February 2019

Model 90.92, $A_L=0.15$
only CMB (propageted through Sevem)



$N_{\text{side}}=32$, only CMB

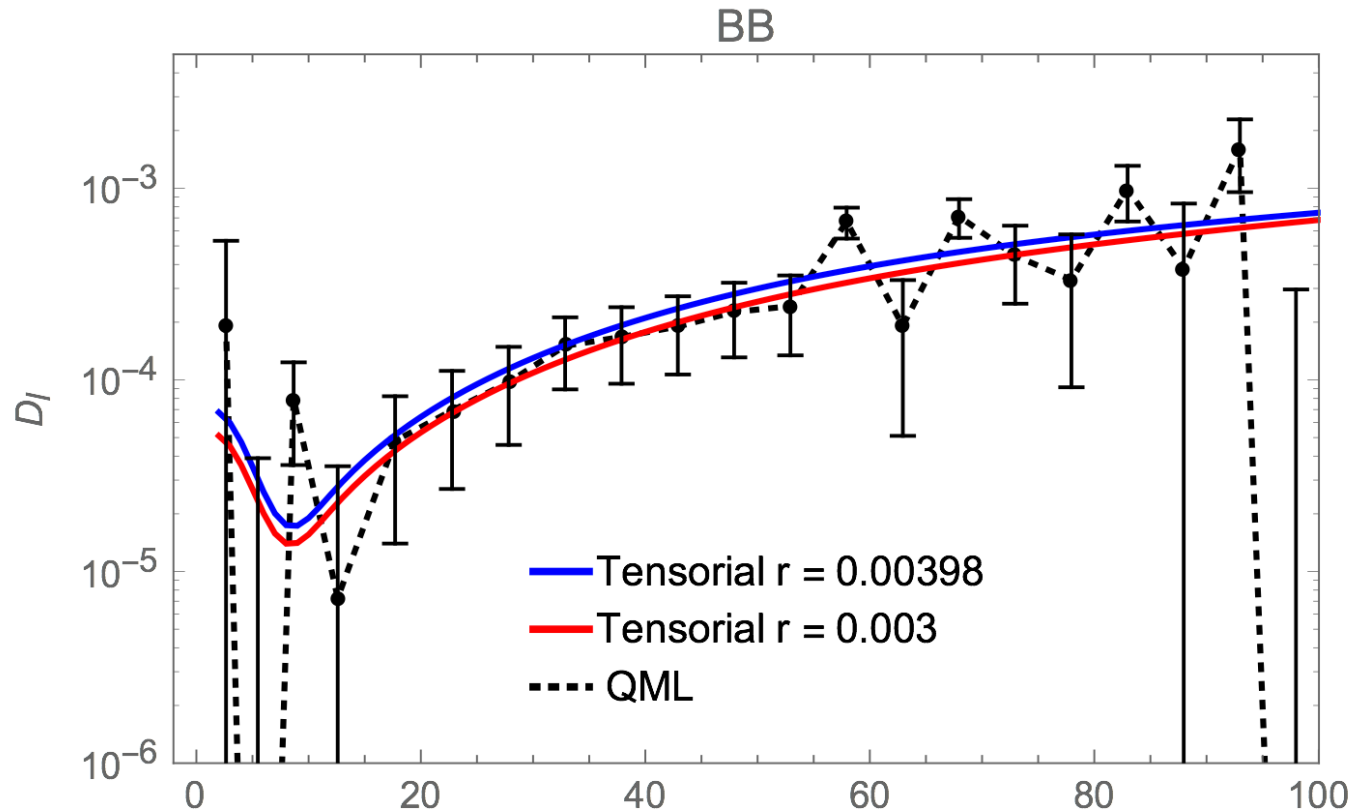
$$r = 0.00351 \pm 0.00034$$



$f_{\text{sky}}=11\%$

Model 90.92, $A_L=0.15$

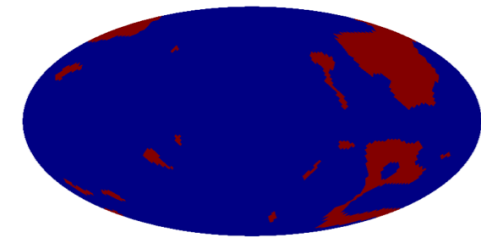
CMB + residual foregrounds (from Sevem)



$N_{\text{side}}=32$, CMB + foregrounds (no noise)

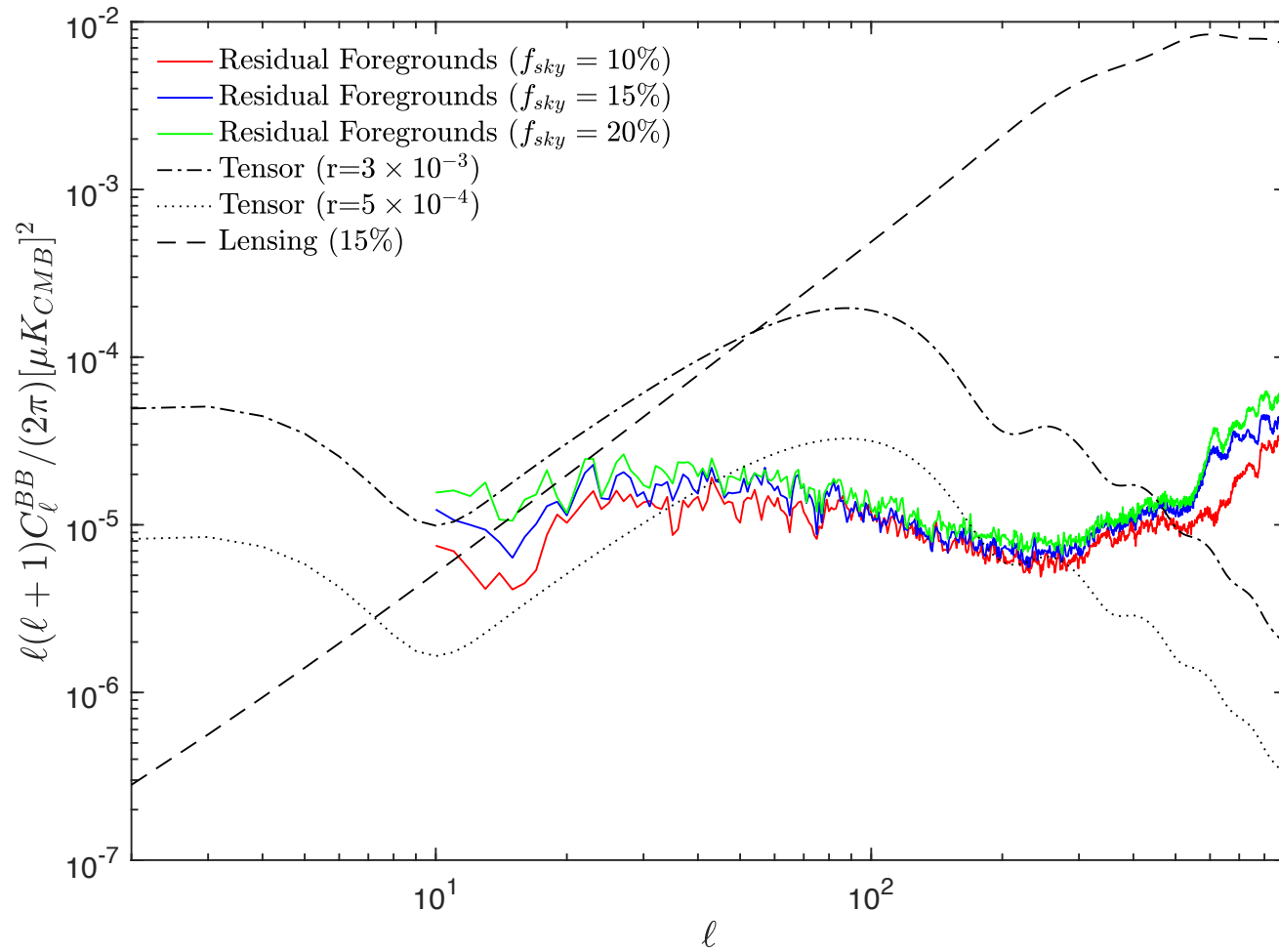
$$r = 0.00398 \pm 0.00040$$

Bias due to residuals $\sim 5 \times 10^{-4}$

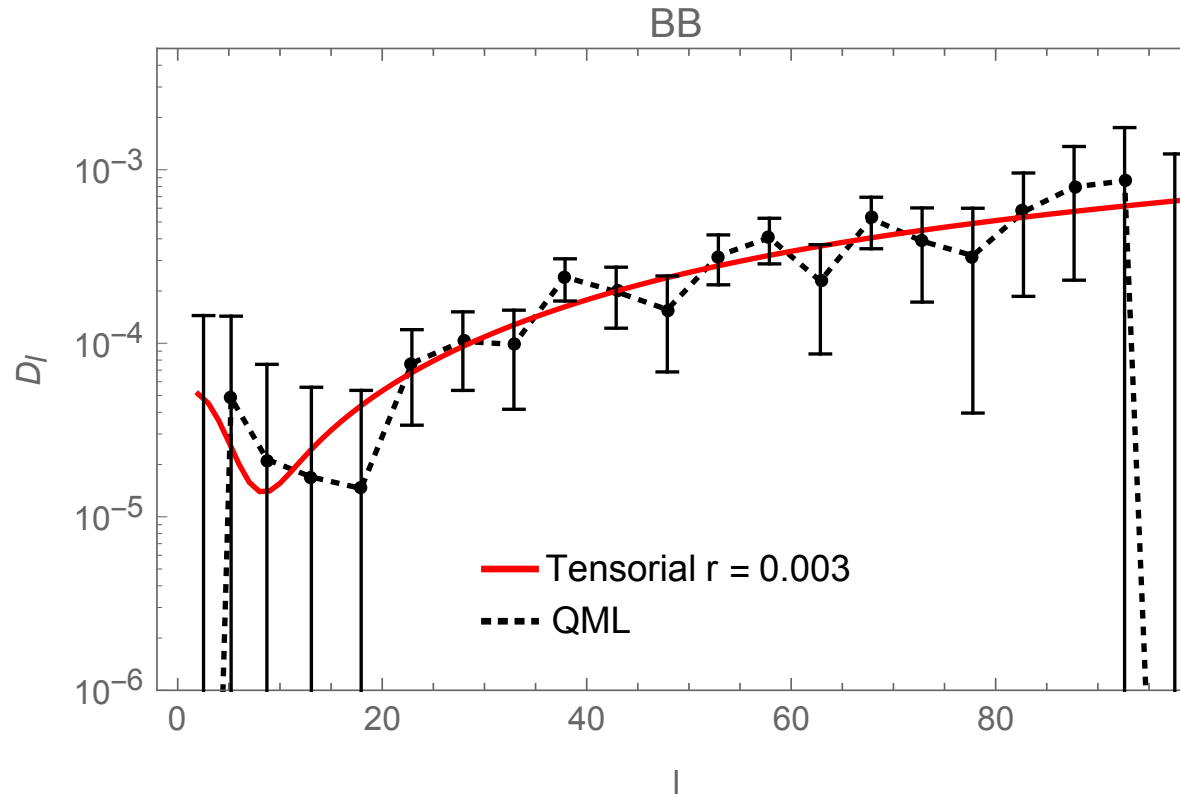


$f_{\text{sky}}=11\%$

Model 90.92, $A_L=0.15$

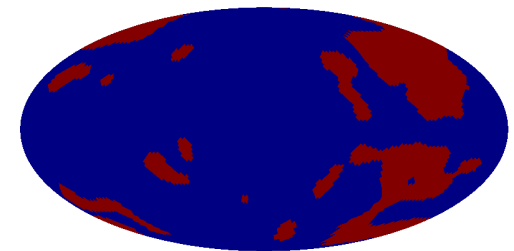


Model 90.92, $A_L=0.15$
only CMB (propagated through Sevem)



$N_{\text{side}}=32$, only CMB

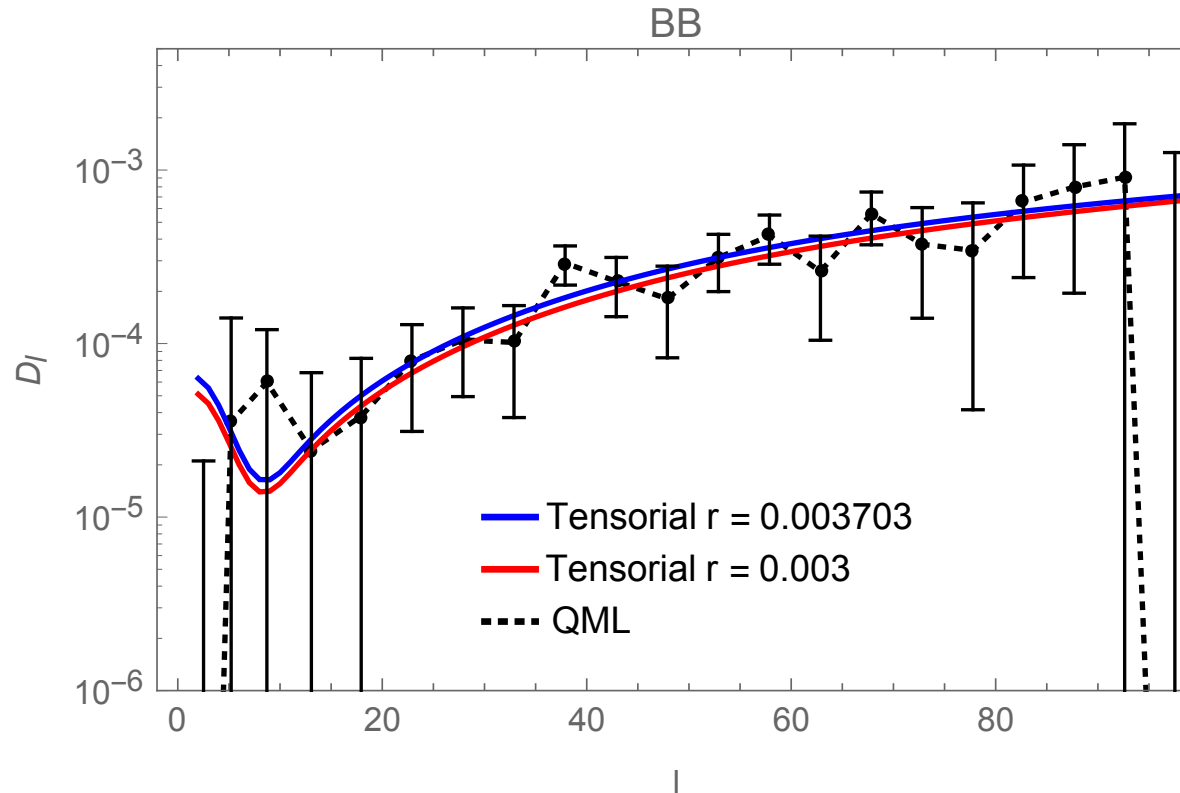
$$r = 0.00308 \pm 0.00025$$



$f_{\text{sky}}=20\%$

Model 90.92, $A_L=0.15$

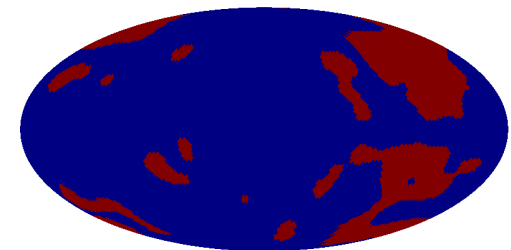
CMB + residual foregrounds (from Sevem)



$N_{\text{side}}=32$, CMB + foregrounds

$$r = 0.00370 \pm 0.00028$$

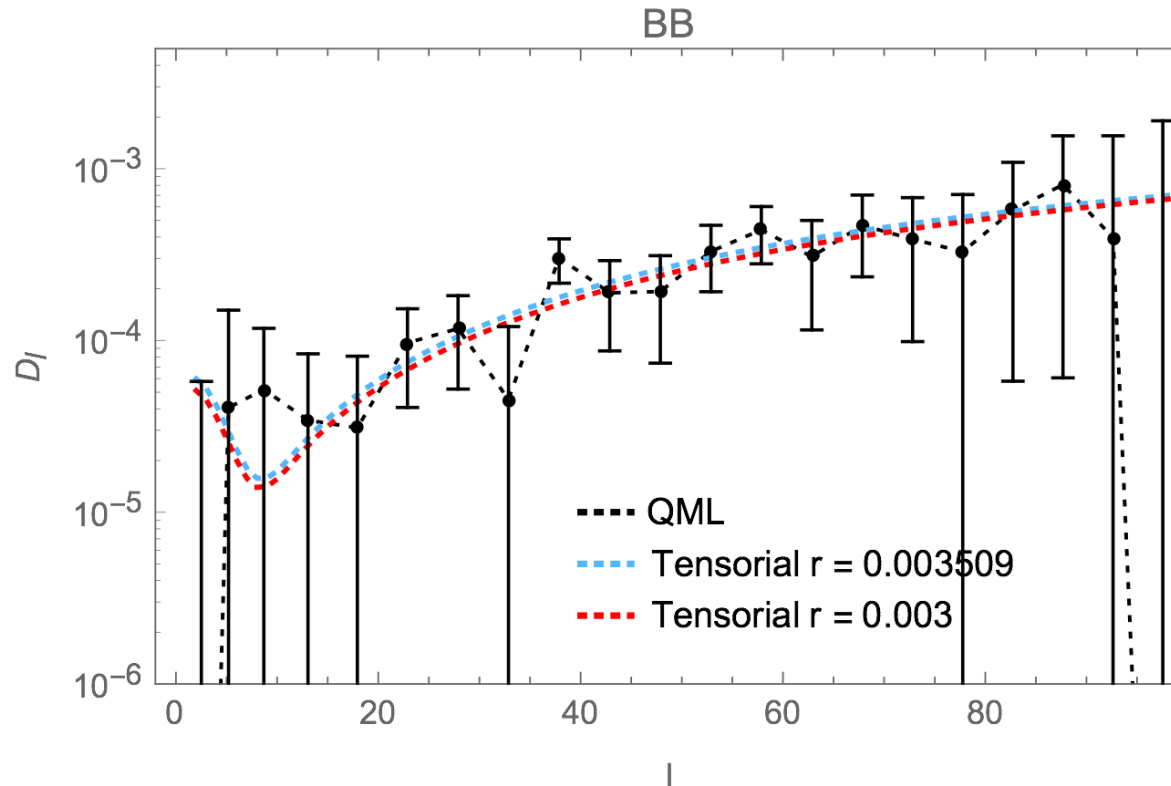
Bias due to residuals $\sim 6 \times 10^{-4}$



$f_{\text{sky}}=20\%$

Model 90.92, $A_L=0.15$

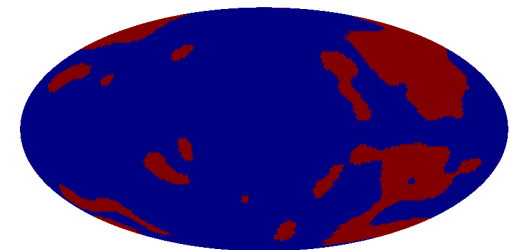
CMB + residual foregrounds + noise (from Sevem)



$N_{\text{side}}=32$, CMB + foregrounds + noise

$$r = 0.00351 \pm 0.00034$$

Bias $\sim 4 \times 10^{-4}$



$f_{\text{sky}}=20\%$