De-scoped PICO r statistics

Aditya Rotti

Case	Moments	Parameters
cMILC00	$I_{\rm CMB}$	1
cMILC01	$I_{\rm CMB}$; $I_{\rm sync}$	2
cMILC02	$I_{\rm CMB}$; $I_{\rm dust}$	2
cMILC03	$I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$	3
cMILC04	$I_{\rm CMB}$; $I_{\rm dust}$; $\frac{dI_{\rm dust}}{d\beta}$	3
cMILC05	$I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm dust}}{d\beta}$	4
cMILC06	$I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$ (H)	5
cMILC07	$I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$	6
cMILC08	$I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm dust}}{d^2T}$	7
cMILC09	$I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm dust}}{d^2T}$ (H)	7
cMILC10	$I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm sync}}{d^2\beta}$; $\frac{d^2I_{\rm dust}}{d^2T}$	8
cMILC11	$I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm sync}}{d^2\beta}$; $\frac{d^2I_{\rm dust}}{d^2T}$ (H)	8
cMILC12	$I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm sync}}{d^2\beta}$; $\frac{d^2I_{\rm dust}}{d^2T}$; $\frac{d^2I_{\rm dust}}{d\beta dT}$	9
cMILC13	$I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm sync}}{d^2\beta}$; $\frac{d^2I_{\rm dust}}{d^2T}$; $\frac{d^2I_{\rm dust}}{d\beta dT}$ (H)	9
cMILC14	$I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm sync}}{d^2\beta}$; $\frac{d^2I_{\rm dust}}{d^2T}$; $\frac{d^2I_{\rm dust}}{d\beta dT}$; $\frac{d^2I_{\rm dust}}{d^2\beta}$	10

Case	Alens	r_{bias}	σ_r	r_{95}	SNR
cMILC00	0.0	0.00042	0.00025	0.00096	1.72351
	0.3	0.00087	0.00078	0.00261	1.11850
	0.6	0.00096	0.00138	0.00408	0.69622
	0.9	0.00099	0.00200	0.00552	0.49516
cMILC01	0.0	0.00042	0.00025	0.00096	1.72503
	0.3	0.00079	0.00077	0.00251	1.03168
	0.6	0.00086	0.00138	0.00396	0.62416
	0.9	0.00088	0.00200	0.00540	0.43888
cMILC02	0.0	0.00004	0.00024	0.00057	0.17917
	0.3	0.00067	0.00104	0.00299	0.64639
	0.6	0.00165	0.00169	0.00538	0.98147
	0.9	0.00219	0.00225	0.00720	0.97358
cMILC03	0.0	0.00003	0.00025	0.00058	0.13816
	0.3	0.00066	0.00104	0.00297	0.63507
	0.6	0.00164	0.00168	0.00536	0.97578
	0.9	0.00217	0.00225	0.00717	0.96775
cMILC04	0.0	0.00024	0.00035	0.00100	0.68209
	0.3	0.00031	0.00113	0.00287	0.27609
	0.6	0.00134	0.00205	0.00591	0.65255
	0.9	0.00244	0.00272	0.00846	0.89598
cMILC05	0.0	0.00033	0.00037	0.00112	0.88920
	0.3	0.00062	0.00115	0.00321	0.54222
	0.6	0.00168	0.00191	0.00592	0.88009
	0.9	0.00251	0.00250	0.00804	1.00670
cMILC06	0.0	0.00028	0.00054	0.00149	0.52232
	0.3	0.00047	0.00088	0.00242	0.53585
	0.6	0.00058	0.00143	0.00378	0.40274
	0.9	0.00061	0.00202	0.00516	0.30171
cMILC07	0.0	0.00007	0.00206	0.00473	0.03338
	0.3	0.00007	0.00221	0.00512	0.03183
	0.6	0.00007	0.00257	0.00596	0.02790
	0.9	0.00007	0.00300	0.00697	0.02353
cMILC08	0.0	0.00007	NaN	NaN	NaN
	0.3	0.00007	NaN	NaN	NaN
	0.6	0.00007	NaN	NaN	NaN

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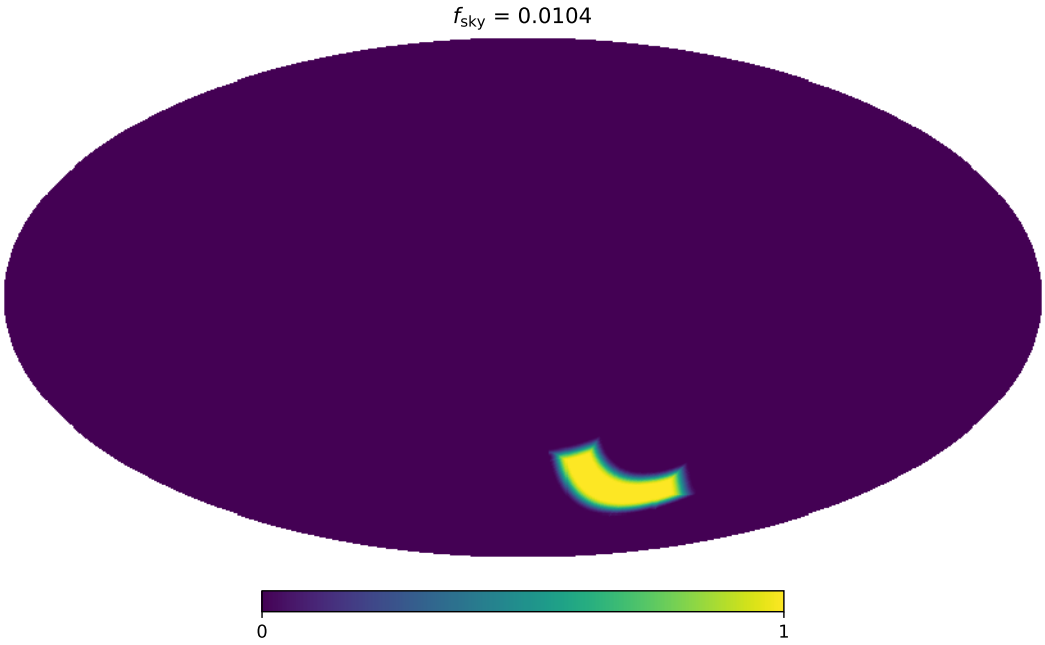
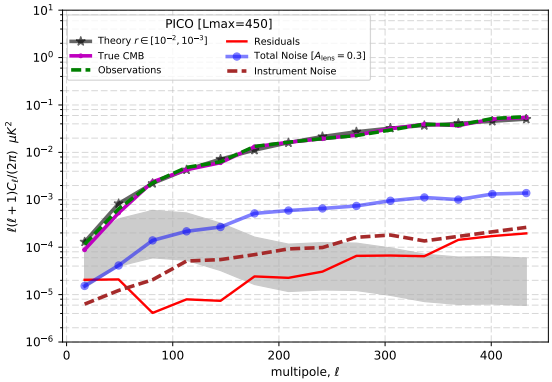
Case	Alens	r_{bias}	σ_r	r_{95}	SNR
	0.9	0.00007	NaN	NaN	NaN
cMILC09	0.0	0.00019	0.00042	0.00110	0.45688
	0.3	0.00022	0.00324	0.00701	0.06874
	0.6	0.00018	0.00549	0.01164	0.03243
	0.9	0.00015	0.00716	0.01510	0.02054
cMILC10	0.0	0.00023	NaN	NaN	NaN
	0.3	0.00023	NaN	NaN	NaN
	0.6	0.00023	NaN	NaN	NaN
	0.9	0.00023	NaN	NaN	NaN
cMILC11	0.0	0.00283	0.00273	0.00855	1.03837
	0.3	0.00100	NaN	NaN	NaN
	0.6	0.00047	NaN	NaN	NaN
	0.9	0.00035	NaN	NaN	NaN
cMILC12	0.0	0.00078	NaN	NaN	NaN
	0.3	0.00078	NaN	NaN	NaN
	0.6	0.00078	NaN	NaN	NaN
	0.9	0.00078	NaN	NaN	NaN
cMILC13	0.0	0.00732	NaN	NaN	NaN
	0.3	0.00784	NaN	NaN	NaN
	0.6	0.00713	NaN	NaN	NaN
	0.9	0.00669	NaN	NaN	NaN
cMILC14	0.0	0.00267	NaN	NaN	NaN
	0.3	0.00267	NaN	NaN	NaN
	0.6	0.00267	NaN	NaN	NaN
	0.9	0.00267	NaN	NaN	NaN

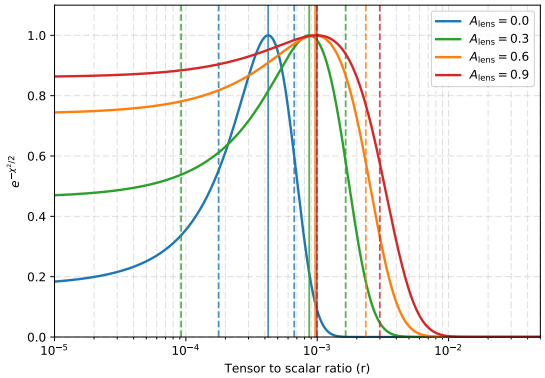


1 Mask

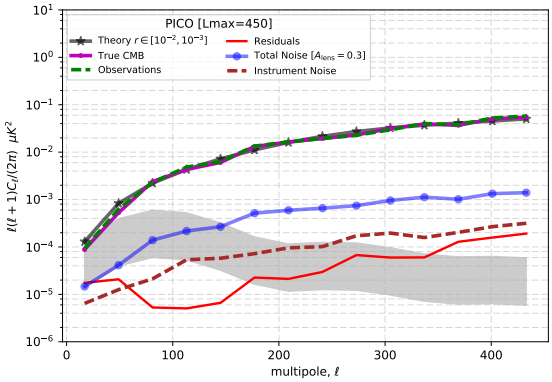
2 Posterior plots

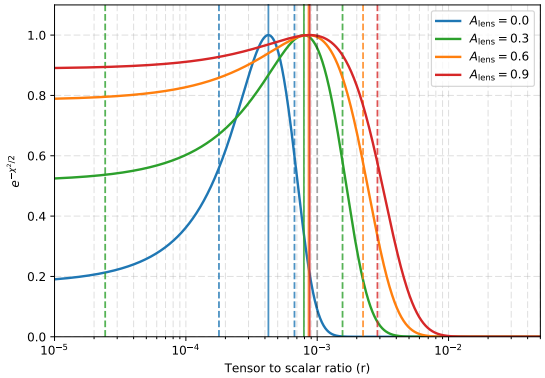
cMILC00 : $I_{\rm CMB}$



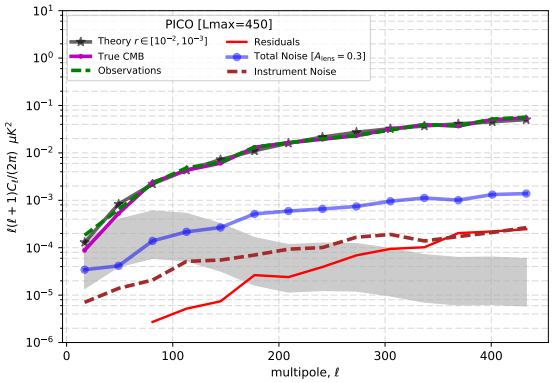


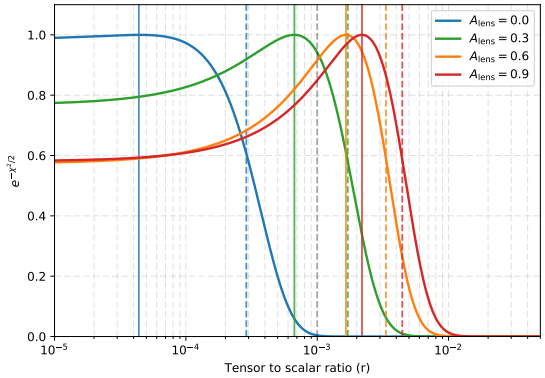
cMILC01 : $I_{\rm CMB}$; $I_{\rm sync}$



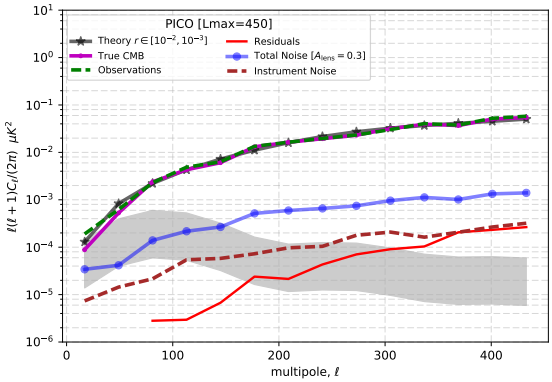


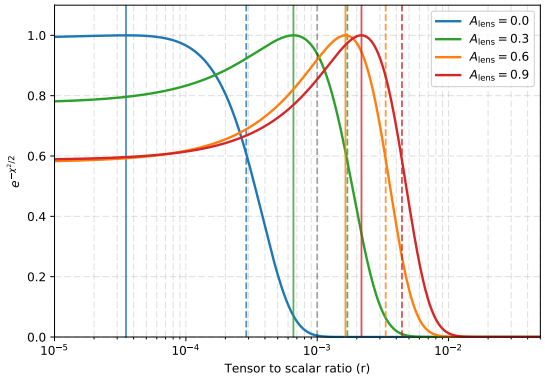
cMILC02 : $I_{\rm CMB}$; $I_{\rm dust}$



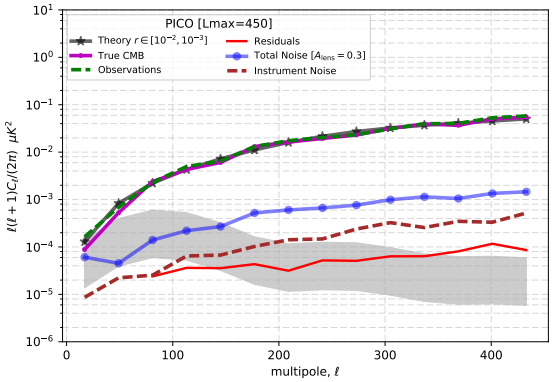


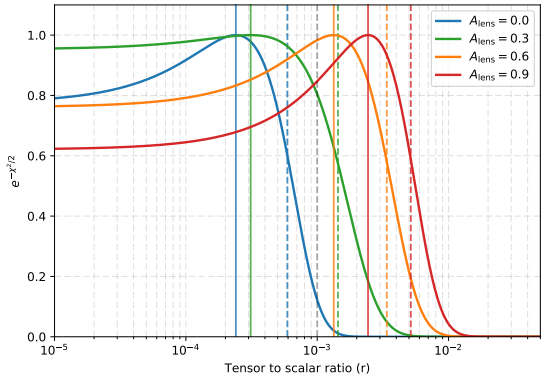
cMILC03 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$



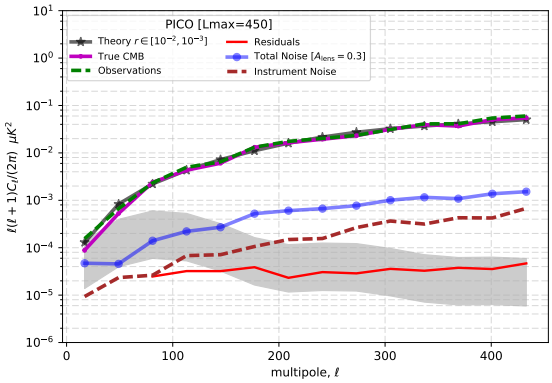


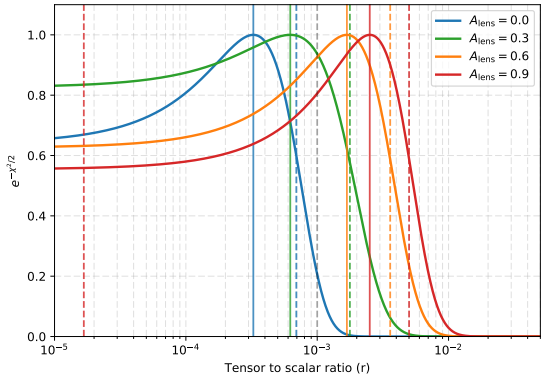
cMILC04 : $I_{\rm CMB}$; $I_{\rm dust}$; $\frac{dI_{\rm dust}}{d\beta}$



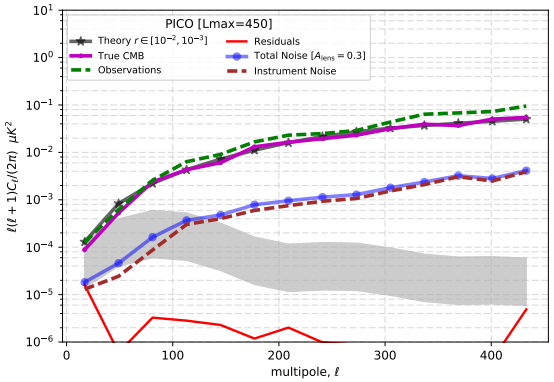


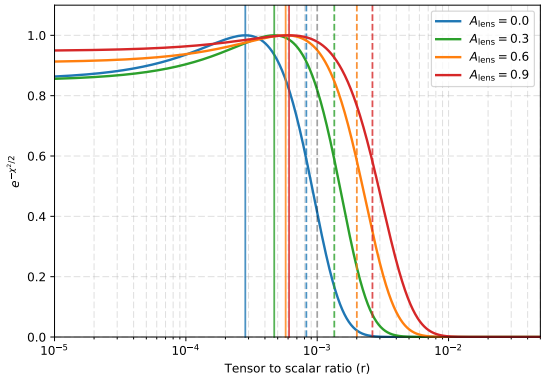
cMILC05 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm dust}}{d\beta}$



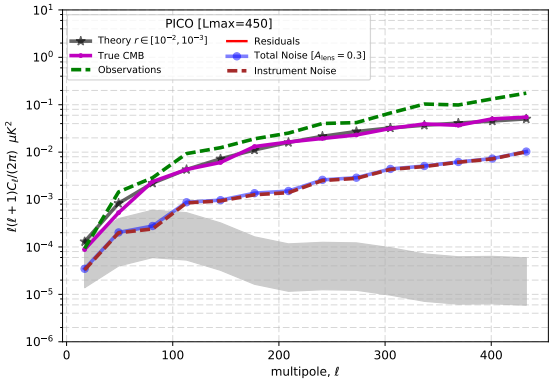


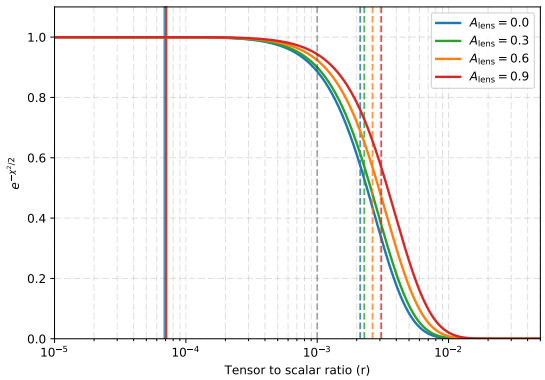
cMILC06 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$ (H)



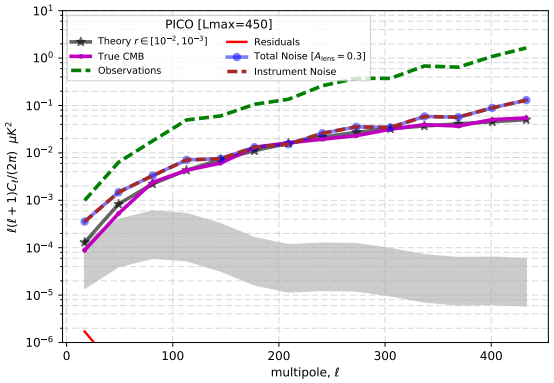


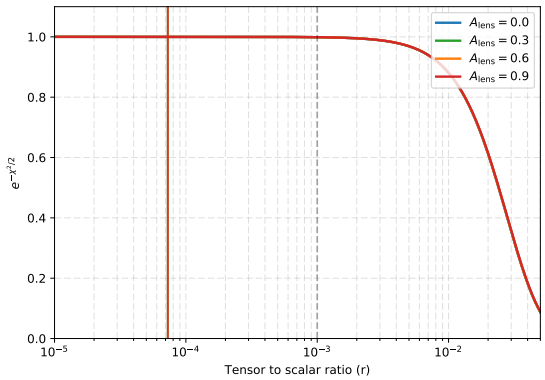
cMILC07 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$



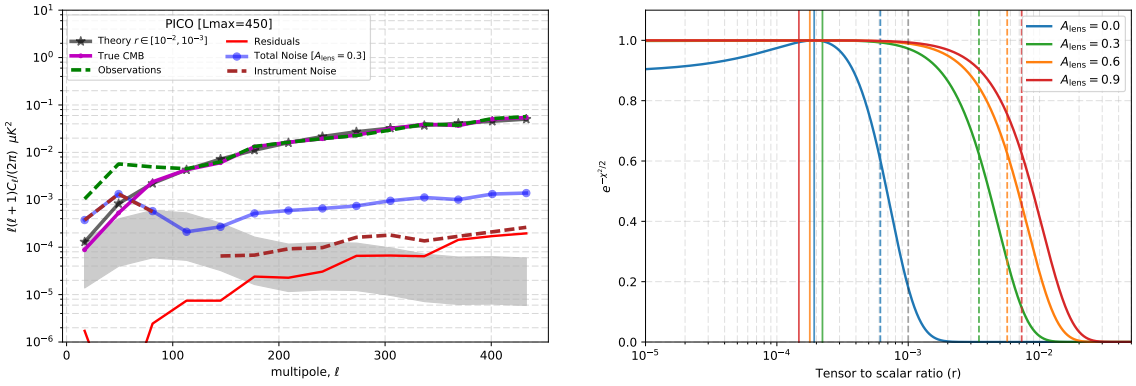


cMILC08 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm dust}}{d^2T}$

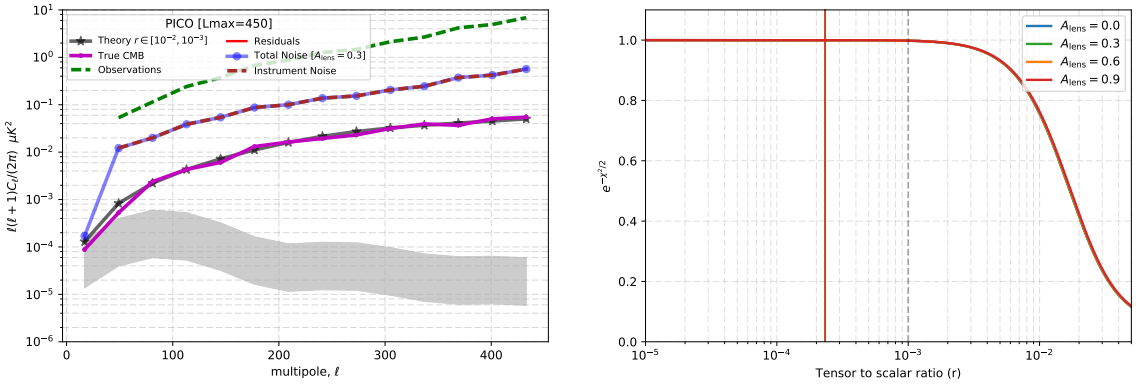




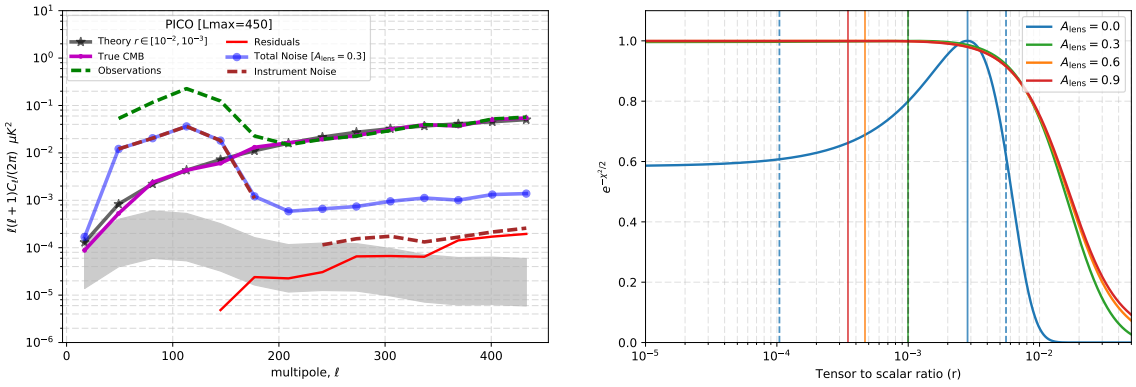
cMILC09 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm dust}}{d^2T}$ (H)



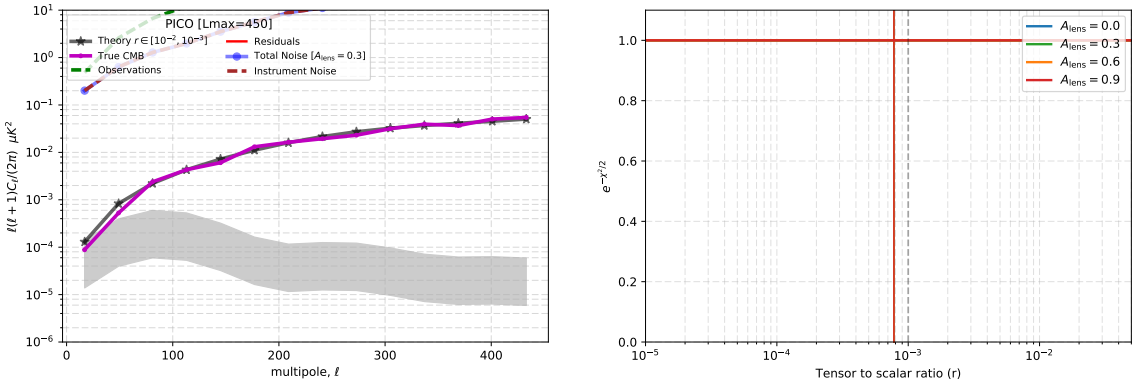
cMILC10 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm sync}}{d^2\beta}$; $\frac{d^2I_{\rm dust}}{d^2T}$



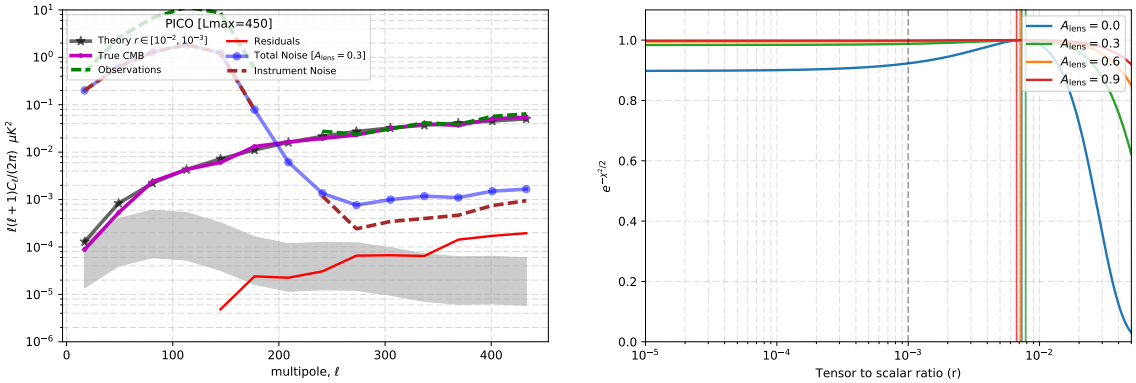
cMILC11 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm sync}}{d^2\beta}$; $\frac{d^2I_{\rm dust}}{d^2T}$ (H)



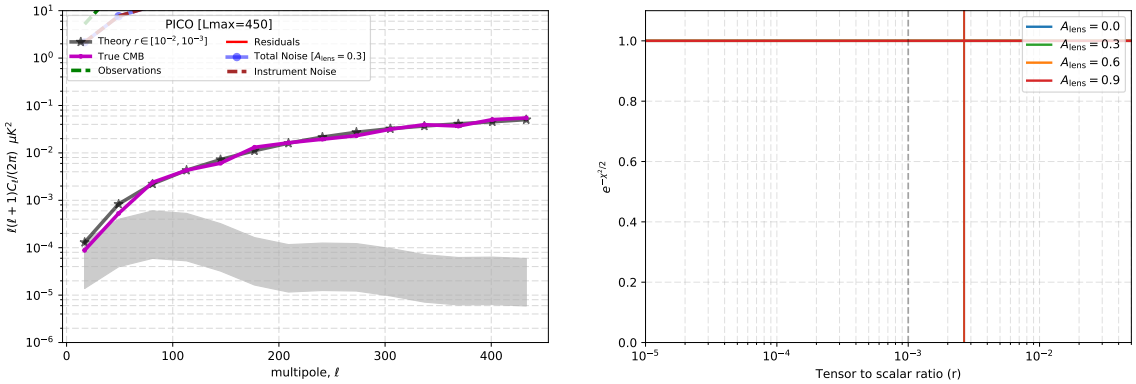
cMILC12 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm sync}}{d^2\beta}$; $\frac{d^2I_{\rm dust}}{d^2T}$; $\frac{d^2I_{\rm dust}}{d\beta dT}$

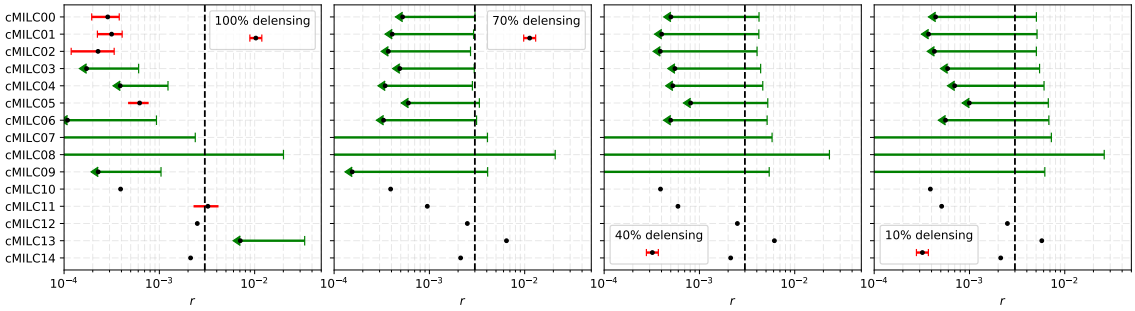


cMILC13 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm sync}}{d^2\beta}$; $\frac{d^2I_{\rm dust}}{d^2T}$; $\frac{d^2I_{\rm dust}}{d\beta dT}$ (H)



cMILC14 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm sync}}{d^2\beta}$; $\frac{d^2I_{\rm dust}}{d^2T}$; $\frac{d^2I_{\rm dust}}{d\beta dT}$; $\frac{d^2I_{\rm dust}}{d^2\beta}$





3 r constraints