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	0.00271	0.00009	NaN	30.62201
	0.3	0.00334	0.00017	NaN	19.79747
	0.6	0.00401	0.00027	NaN	14.59523
	0.9	0.00450	0.00038	NaN	11.89022
cMILC01	0.0	0.00264	0.00008	NaN	31.25218
	0.3	0.00330	0.00016	NaN	20.00825
	0.6	0.00398	0.00028	NaN	14.31053
	0.9	0.00448	0.00039	NaN	11.59415
cMILC02	0.0	0.00200	0.00008	NaN	25.21423
	0.3	0.00235	0.00015	NaN	15.17177
	0.6	0.00279	0.00026	NaN	10.80115
	0.9	0.00320	0.00036	NaN	8.78118
cMILC03	0.0	0.00187	0.00008	NaN	24.69358
	0.3	0.00223	0.00015	NaN	14.84988
	0.6	0.00268	0.00026	NaN	10.35723
	0.9	0.00308	0.00036	NaN	8.51984
cMILC04	0.0	0.00186	0.00009	NaN	19.79835
	0.3	0.00219	0.00016	NaN	13.56261
	0.6	0.00265	0.00027	NaN	9.82245
	0.9	0.00306	0.00038	NaN	7.93825
cMILC05	0.0	0.00171	0.00009	NaN	18.78346
	0.3	0.00206	0.00016	NaN	12.84751
	0.6	0.00252	0.00027	NaN	9.42805
	0.9	0.00294	0.00038	NaN	7.71034
cMILC06	0.0	0.00245	0.00013	NaN	18.85235
	0.3	0.00258	0.00017	NaN	14.89615
	0.6	0.00282	0.00026	NaN	10.86735
	0.9	0.00304	0.00034	NaN	8.91907
cMILC07	0.0	0.00085	0.00019	NaN	4.61672
	0.3	0.00088	0.00019	NaN	4.57787
	0.6	0.00093	0.00021	NaN	4.45803
	0.9	0.00098	0.00023	NaN	4.26685
cMILC08	0.0	0.00186	0.00123	0.00459	1.51181
	0.3	0.00186	0.00123	0.00459	1.51091
	0.6	0.00186	0.00123	0.00460	1.50822

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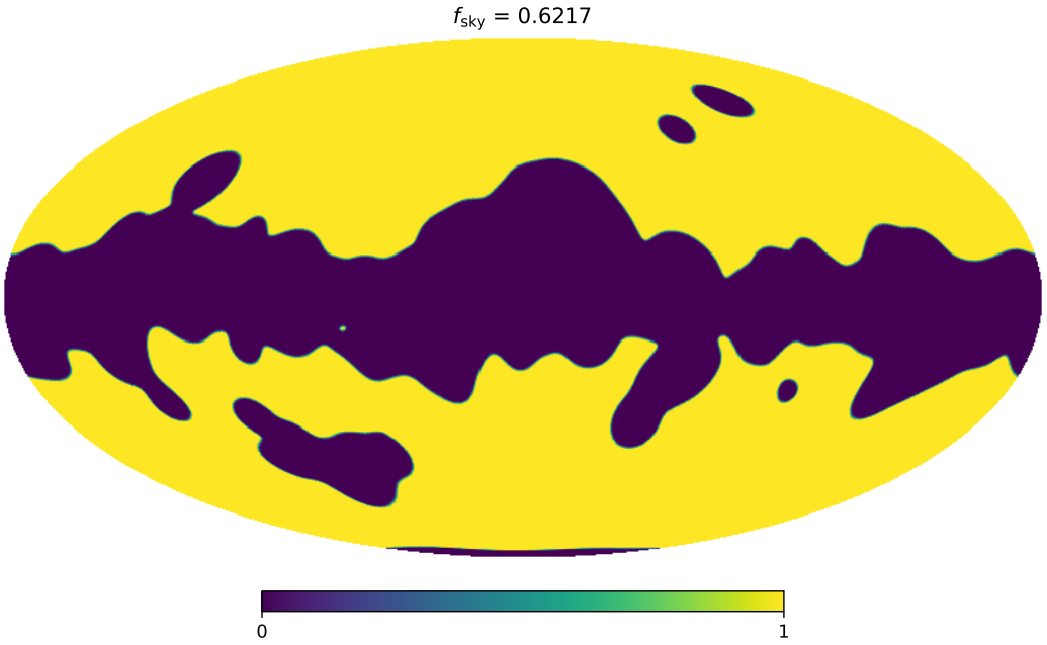
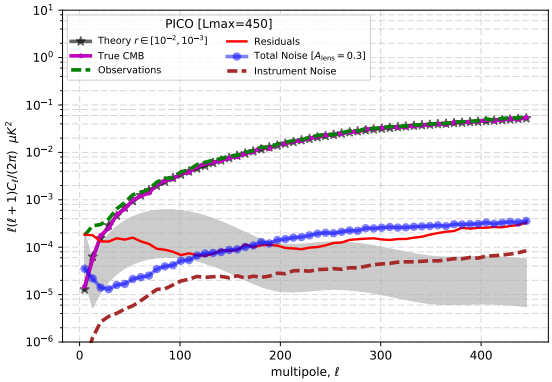
Case	Alens	r_{bias}	σ_r	r_{95}	SNR
	0.9	0.00186	0.00123	0.00461	1.50372
cMILC09	0.0	0.00195	0.00015	NaN	13.33651
	0.3	0.00133	0.00033	NaN	3.97684
	0.6	0.00136	0.00054	NaN	2.51352
	0.9	0.00144	0.00069	NaN	2.08759
cMILC10	0.0	0.00108	0.00401	0.00992	0.26855
	0.3	0.00108	0.00401	0.00992	0.26854
	0.6	0.00108	0.00401	0.00992	0.26849
	0.9	0.00108	0.00401	0.00993	0.26841
cMILC11	0.0	0.01135	0.00067	NaN	16.97539
	0.3	0.00692	0.00292	NaN	2.37456
	0.6	0.00352	0.00366	0.01147	0.96076
	0.9	0.00235	0.00382	0.01071	0.61492
cMILC12	0.0	0.00270	NaN	NaN	NaN
	0.3	0.00270	NaN	NaN	NaN
	0.6	0.00270	NaN	NaN	NaN
	0.9	0.00270	NaN	NaN	NaN
cMILC13	0.0	0.01301	0.00044	NaN	29.52792
	0.3	0.01284	0.00423	NaN	3.03642
	0.6	0.01226	0.00769	0.02803	1.59449
	0.9	0.01205	0.01119	0.03494	1.07716
cMILC14	0.0	0.00764	NaN	NaN	NaN
	0.3	0.00764	NaN	NaN	NaN
	0.6	0.00764	NaN	NaN	NaN
	0.9	0.00764	NaN	NaN	NaN

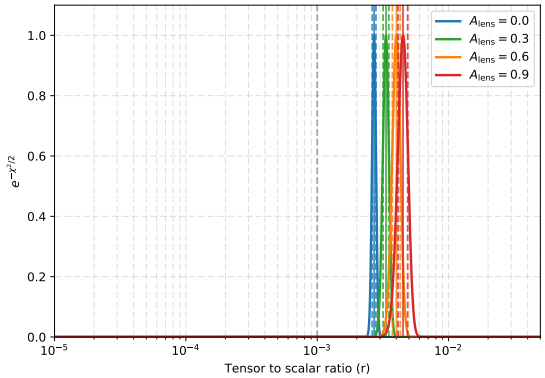


1 Mask

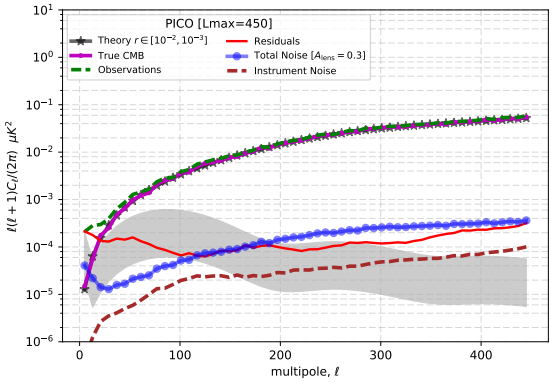
2 Posterior plots

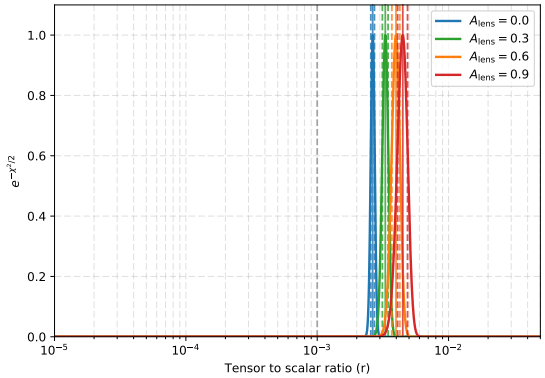
cMILC00 : $I_{\rm CMB}$



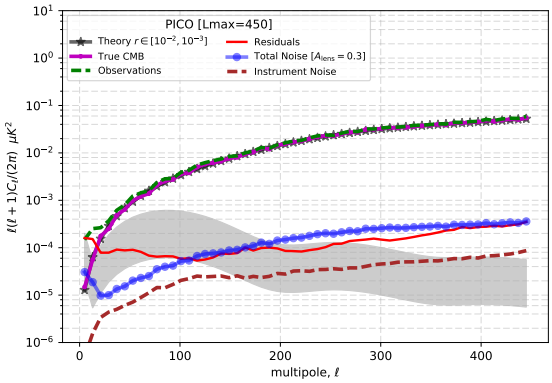


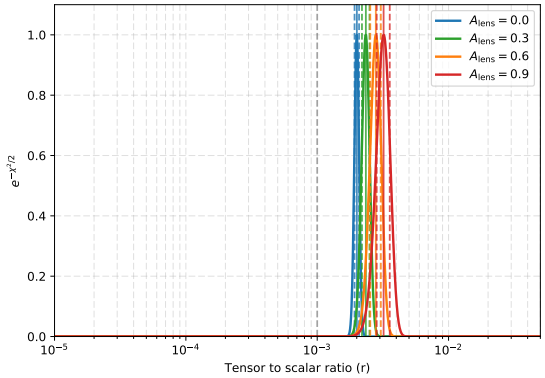
cMILC01 : $I_{\rm CMB}$; $I_{\rm sync}$



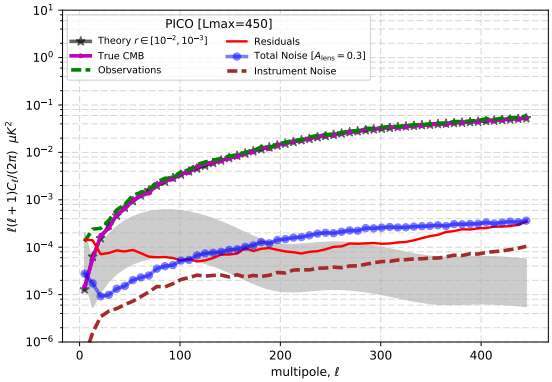


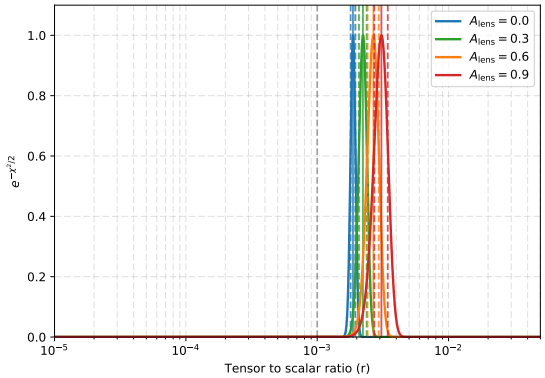
cMILC02 : $I_{\rm CMB}$; $I_{\rm dust}$



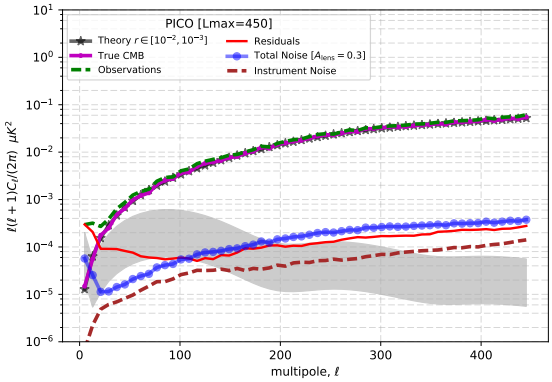


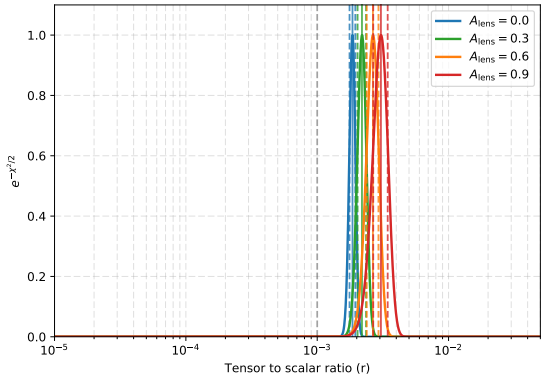
cMILC03 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$



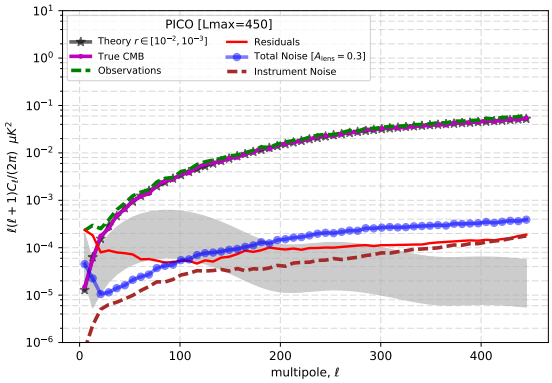


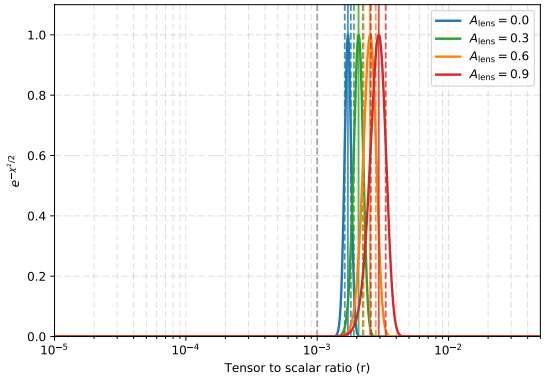
cMILC04 : $I_{\rm CMB}$; $I_{\rm dust}$; $\frac{dI_{\rm dust}}{d\beta}$



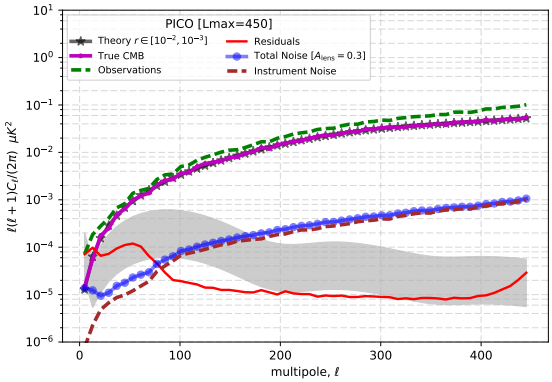


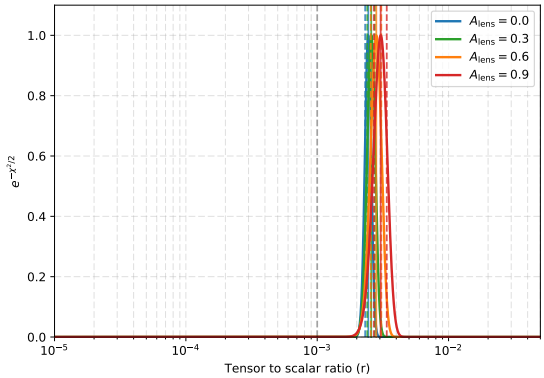
cMILC05 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm dust}}{d\beta}$



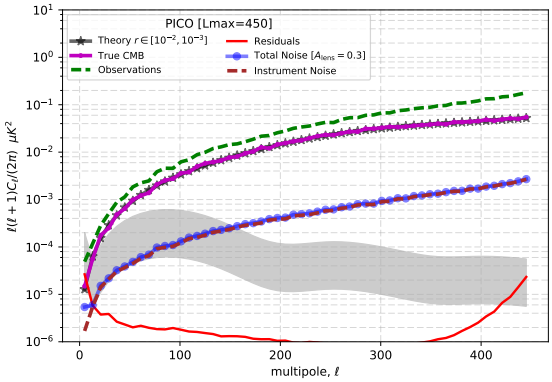


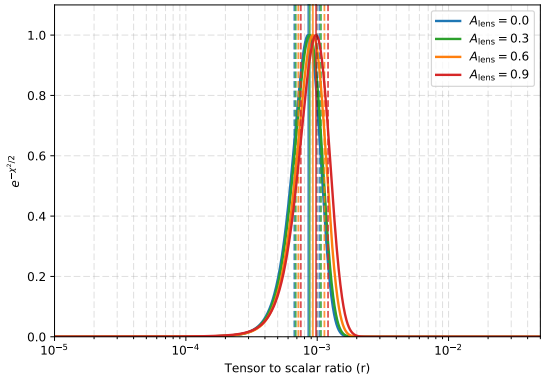
cMILC06 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$ (H)



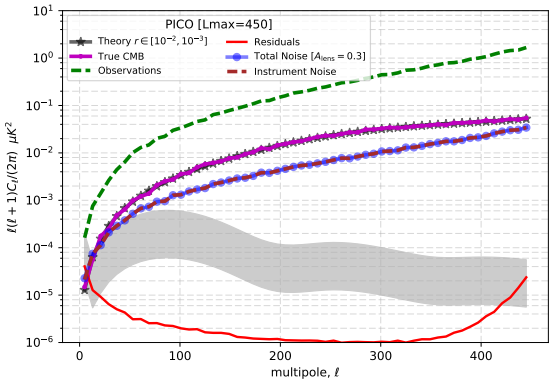


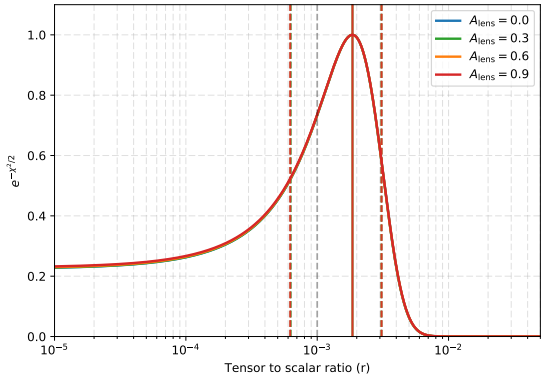
cMILC07 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$



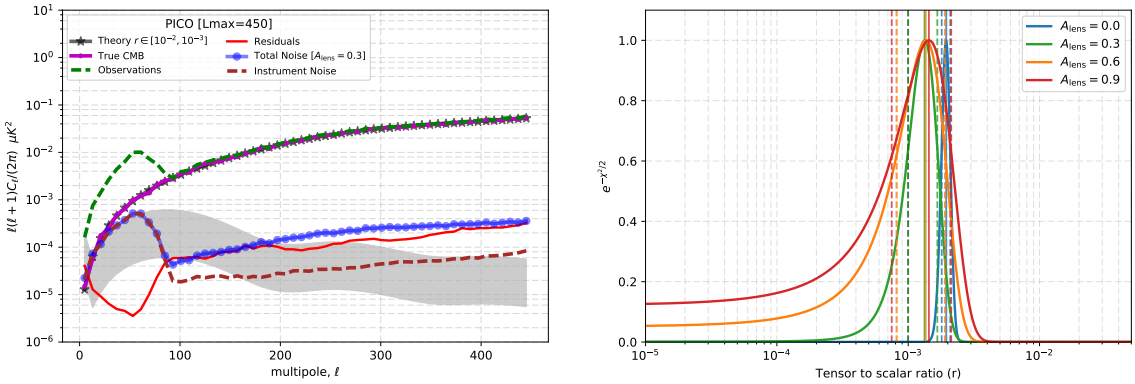


cMILC08 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm dust}}{d^2T}$

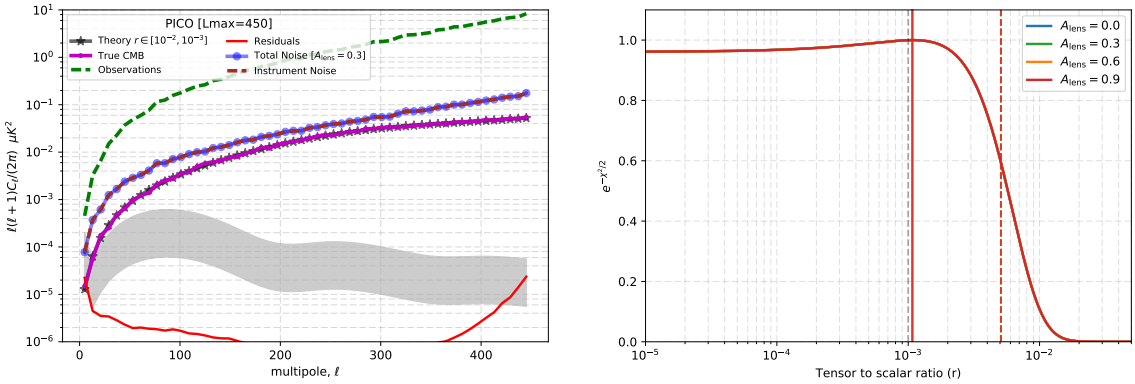




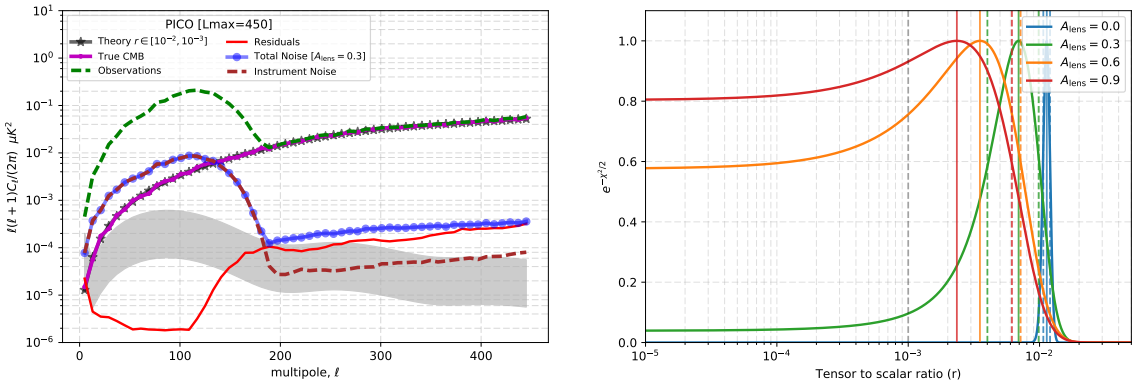
cMILC09 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm dust}}{d^2T}$ (H)



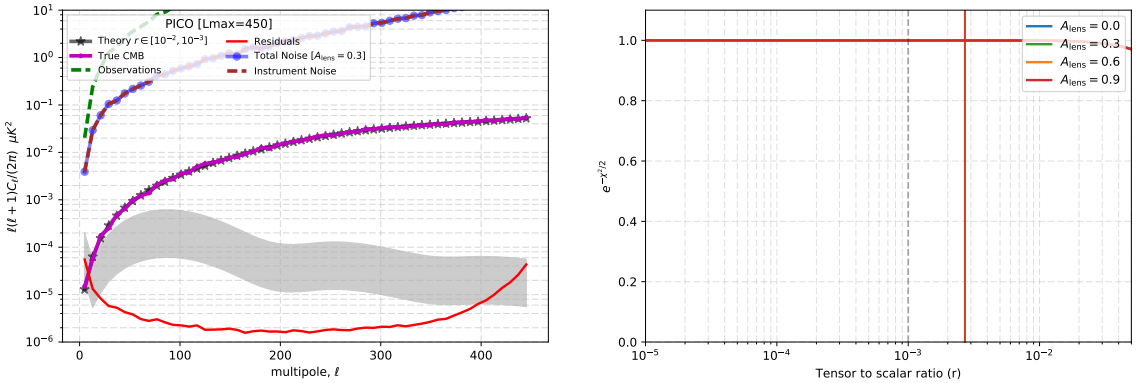
cMILC10 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm sync}}{d^2\beta}$; $\frac{d^2I_{\rm dust}}{d^2T}$



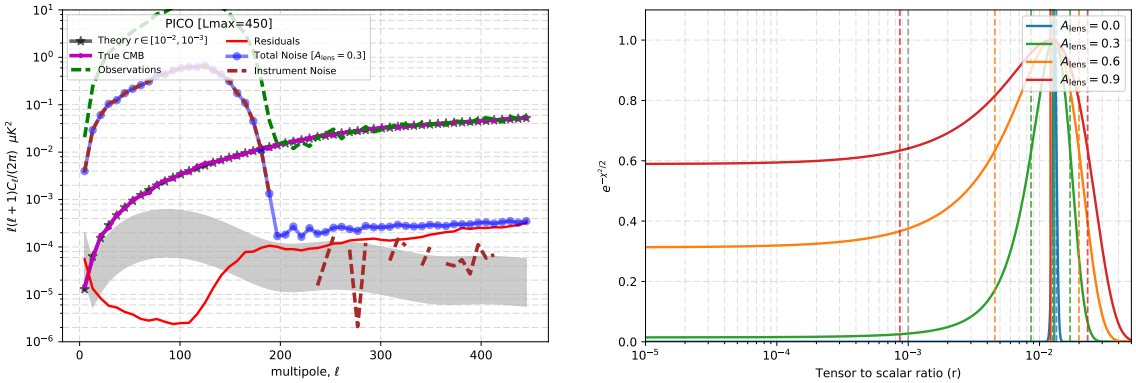
cMILC11 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm sync}}{d^2\beta}$; $\frac{d^2I_{\rm dust}}{d^2T}$ (H)



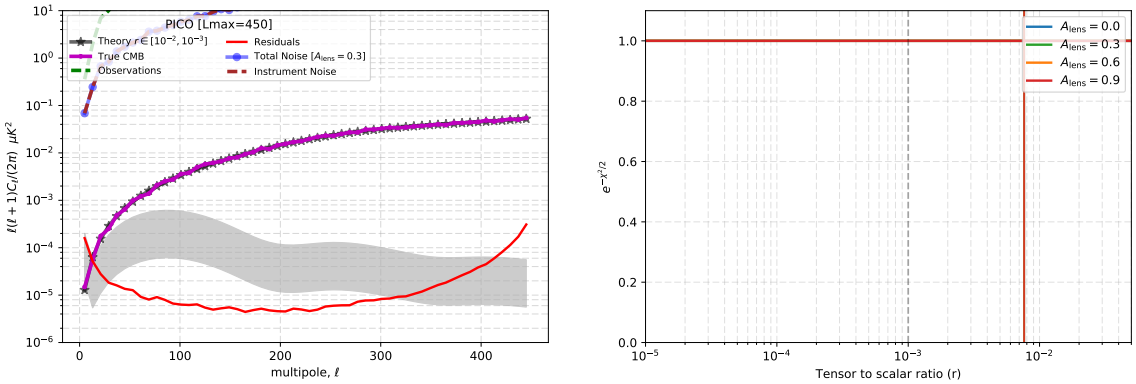
cMILC12 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm sync}}{d^2\beta}$; $\frac{d^2I_{\rm dust}}{d^2T}$; $\frac{d^2I_{\rm dust}}{d\beta dT}$

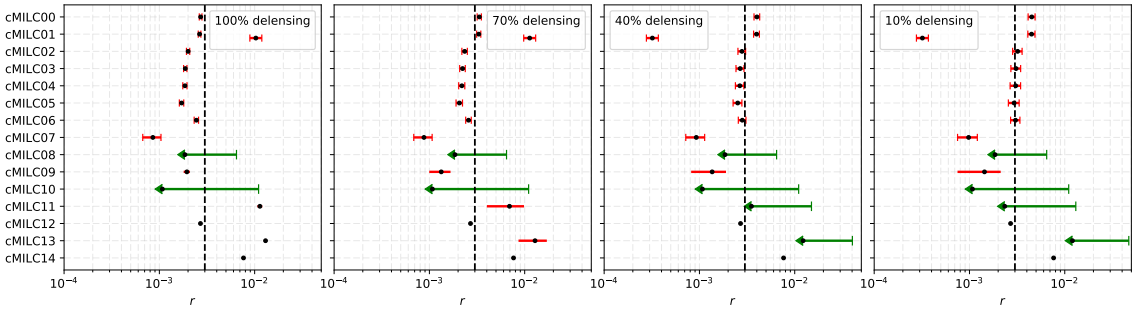


cMILC13 : $I_{\rm CMB}$; $I_{\rm sync}$; $I_{\rm dust}$; $\frac{dI_{\rm sync}}{d\beta}$; $\frac{dI_{\rm dust}}{d\beta}$; $\frac{dI_{\rm dust}}{dT}$; $\frac{d^2I_{\rm sync}}{d^2\beta}$; $\frac{d^2I_{\rm dust}}{d^2T}$; $\frac{d^2I_{\rm dust}}{d\beta dT}$ (H)



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