

# PICO r statistics

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Case	Moments	Parameters
NILC	$f_{\text{CMB}}$	1
cMILC01	$f_{\text{CMB}} ; f_{\text{sync}}$	2
cMILC02	$f_{\text{CMB}} ; f_{\text{dust}}$	2
cMILC03	$f_{\text{CMB}} ; f_{\text{sync}} ; f_{\text{dust}}$	3
cMILC04	$f_{\text{CMB}} ; f_{\text{dust}} ; \frac{df_{\text{dust}}}{d\beta}$	3
cMILC06	$f_{\text{CMB}} ; f_{\text{sync}} ; f_{\text{dust}} ; \frac{df_{\text{dust}}}{d\beta}$	4
cMILC08	$f_{\text{CMB}} ; f_{\text{sync}} ; f_{\text{dust}} ; \frac{df_{\text{sync}}}{d\beta} ; \frac{df_{\text{dust}}}{d\beta} ; \frac{df_{\text{dust}}}{dT}$	6
cMILC09	$f_{\text{CMB}} ; f_{\text{sync}} ; f_{\text{dust}} ; \frac{df_{\text{sync}}}{d\beta} ; \frac{df_{\text{dust}}}{d\beta} ; \frac{df_{\text{dust}}}{dT} ; \frac{d^2 f_{\text{dust}}}{d^2 T}$	7
cMILC10	$f_{\text{CMB}} ; f_{\text{sync}} ; f_{\text{dust}} ; \frac{df_{\text{sync}}}{d\beta} ; \frac{df_{\text{dust}}}{d\beta} ; \frac{df_{\text{dust}}}{dT} ; \frac{d^2 f_{\text{sync}}}{d^2 \beta} ; \frac{d^2 f_{\text{dust}}}{d^2 T}$	8
cMILC11	$f_{\text{CMB}} ; f_{\text{sync}} ; f_{\text{dust}} ; \frac{df_{\text{sync}}}{d\beta} ; \frac{df_{\text{dust}}}{d\beta} ; \frac{df_{\text{dust}}}{dT} ; \frac{d^2 f_{\text{sync}}}{d^2 \beta} ; \frac{d^2 f_{\text{dust}}}{d^2 T} ; \frac{d^2 f_{\text{dust}}}{d\beta dT}$	9
cMILC12	$f_{\text{CMB}} ; f_{\text{sync}} ; f_{\text{dust}} ; \frac{df_{\text{sync}}}{d\beta} ; \frac{df_{\text{dust}}}{d\beta} \text{ (H)}$	5

Case	Alens	$r_{\text{bias}}$	$\sigma_r$	$r_{95}$	SNR
NILC	0.0	0.00005	0.00005	0.00015	0.93812
	0.4	0.00010	0.00017	0.00046	0.57831
	1.0	0.00011	0.00032	0.00077	0.35296
cMILC01	0.0	0.00004	0.00005	0.00014	0.78636
	0.4	0.00010	0.00017	0.00046	0.55629
	1.0	0.00011	0.00032	0.00076	0.33943
cMILC02	0.0	0.00004	0.00005	0.00014	0.78032
	0.4	0.00007	0.00017	0.00043	0.41291
	1.0	0.00008	0.00032	0.00073	0.24771
cMILC03	0.0	0.00003	0.00005	0.00014	0.58529
	0.4	0.00006	0.00017	0.00042	0.37145
	1.0	0.00007	0.00032	0.00073	0.22434
cMILC04	0.0	0.00004	0.00008	0.00020	0.44007
	0.4	0.00004	0.00021	0.00046	0.19367
	1.0	0.00004	0.00035	0.00076	0.12209
cMILC06	0.0	0.00003	0.00008	0.00021	0.37908
	0.4	0.00004	0.00021	0.00046	0.18267
	1.0	0.00004	0.00035	0.00076	0.11570
cMILC08	0.0	0.00003	0.00020	0.00043	0.16431
	0.4	0.00005	0.00034	0.00075	0.15969
	1.0	0.00007	0.00051	0.00112	0.13673
cMILC09	0.0	0.00008	0.00024	0.00056	0.33183
	0.4	0.00013	0.00037	0.00089	0.34150
	1.0	0.00017	0.00054	0.00128	0.30500
cMILC10	0.0	0.00058	0.00064	0.00189	0.90884
	0.4	0.00066	0.00076	0.00222	0.87795
	1.0	0.00076	0.00092	0.00265	0.81908
cMILC11	0.0	0.00417	0.00669	0.01791	0.62223
	0.4	0.00417	0.00678	0.01810	0.61537
	1.0	0.00417	0.00693	0.01839	0.60277
cMILC12	0.0	0.00003	0.00010	0.00024	0.33583
	0.4	0.00009	0.00025	0.00060	0.35327
	1.0	0.00011	0.00041	0.00096	0.27782