

		NUTS				EMCEE				Barker MH				Nested Sampling			
	Parameters	\hat{R}_{emu}	\hat{R}_{EH}	$N_{\text{eff, emu}}$	$N_{\text{eff, EH}}$	\hat{R}_{emu}	\hat{R}_{EH}	$N_{\text{eff, emu}}$	$N_{\text{eff, EH}}$	\hat{R}_{emu}	\hat{R}_{EH}	$N_{\text{eff, emu}}$	$N_{\text{eff, EH}}$	\hat{R}_{emu}	\hat{R}_{EH}	$N_{\text{eff, emu}}$	$N_{\text{eff, EH}}$
Cosmology	σ_8	1.01	1.01	136.37	145.24	1.08	1.07	62.36	73.91	1.49	1.35	6.48	8.87				
	Ω_c	1.01	1.01	152.08	185.56	1.02	1.02	265.57	928.67	1.21	1.01	10.78	41.67				
	Ω_b	1.00	1.02	269.22	167.30	1.00	1.02	6250.45	1150.31	1.03	1.04	11.90	11.34				
	h	1.01	1.00	208.76	548.84	1.01	1.03	8007.08	143.94	1.43	1.61	8.10	8.11				
	n_s	1.01	1.01	307.28	178.89	1.01	1.01	260280.51	1207.12	1.13	1.05	8.99	13.06				
Multiplicative	m_1	1.00	1.00	28836.75	30738.04	1.04	1.01	47.88	318.68	1.00	1.00	3463.49	2100.02				
	m_2	1.00	1.00	27551.48	29054.72	1.09	1.06	20.96	35.68	1.00	1.00	3188.36	2086.72				
	m_3	1.00	1.00	17718.36	20889.98	1.01	1.04	113.60	46.47	1.01	1.00	2053.72	1453.72				
	m_4	1.00	1.00	16858.58	24410.81	1.06	1.03	33.59	66.59	1.01	1.00	2462.37	1685.12				
Shifts (WL)	$\delta_\gamma^{(1)}$	1.00	1.00	10830.52	12388.48	1.03	1.01	94.89	507405.37	1.02	1.01	885.64	807.58				
	$\delta_\gamma^{(2)}$	1.00	1.00	26477.66	28672.85	1.06	1.04	29.17	42.05	1.00	1.00	10863.74	7078.01				
	$\delta_\gamma^{(3)}$	1.00	1.00	20919.52	22335.71	1.03	1.01	191.16	732.40	1.01	1.02	2439.80	1182.63				
	$\delta_\gamma^{(4)}$	1.00	1.00	14754.05	17966.16	1.06	1.01	35.78	2045.77	1.01	1.02	1491.92	859.00				
Intrinsic Alignment	A_{IA}	1.00	1.00	2158.91	1599.41	1.01	1.01	456131.41	392577.27	1.24	1.25	9.02	7.64				
	η	1.00	1.01	418.44	264.99	1.01	1.01	425707.67	10706.29	2.45	2.15	5.24	5.36				
Galaxy bias	b_1	1.00	1.01	218.60	235.63	1.05	1.03	251.63	477.75	1.13	1.06	32.48	39.49				
	b_2	1.00	1.01	187.30	200.98	1.12	1.10	35.39	38.44	1.32	1.29	10.53	14.39				
	b_3	1.00	1.01	193.96	201.39	1.10	1.07	38.70	85.24	1.28	1.21	9.77	16.99				
	b_4	1.00	1.01	189.77	207.16	1.09	1.08	69.24	67.72	1.30	1.23	10.52	10.94				
	b_5	1.00	1.01	217.81	226.61	1.12	1.12	33.40	30.23	1.30	1.33	10.42	10.85				
Shifts (GC)	$\delta_g^{(1)}$	1.00	1.00	26467.60	27603.76	1.03	1.02	96.63	136.45	1.00	1.00	1578.74	1672.30				
	$\delta_g^{(2)}$	1.00	1.00	29915.64	27571.26	1.01	1.00	307257.00	344133.84	1.00	1.00	3100.59	2746.75				
	$\delta_g^{(3)}$	1.00	1.00	28107.70	28512.20	1.01	1.02	1656.81	304.74	1.00	1.00	6386.17	3542.15				
	$\delta_g^{(4)}$	1.00	1.00	25489.90	26892.06	1.00	1.00	89455.55	417556.82	1.00	1.00	3877.96	3095.35				
	$\delta_g^{(5)}$	1.00	1.00	28271.45	26376.54	1.00	1.01	4749.33	204493.37	1.00	1.00	5039.44	5183.86				

Table 1: Sampler diagnostics - NUTS ($N_{\text{samples}} = 15000$, $\varepsilon = 0.1$, $N_{\text{step}} = 31$, time ~ 20 hours), EMCEE ($N_{\text{samples}} = 5000$, $N_{\text{walkers}} = 50$, $\varepsilon = 10^{-4}$, time ~ 4 hours), Barker ($N_{\text{samples}} = 150000$, $N_{\text{walkers}} = 1000$, time ~ 6 hours 45 minutes)

	Parameters	NUTS				EMCEE				Barker MH				Nested Sampling			
		μ_{emu}	σ_{emu}	μ_{EH}	σ_{EH}	μ_{emu}	σ_{emu}	μ_{EH}	σ_{EH}	μ_{emu}	σ_{emu}	μ_{EH}	σ_{EH}	μ_{emu}	σ_{emu}	μ_{EH}	σ_{EH}
Cosmology	σ_8	0.839	0.064	0.834	0.067	0.853	0.056	0.844	0.056	0.819	0.030	0.799	0.029				
	Ω_c	0.230	0.024	0.227	0.026	0.227	0.022	0.225	0.023	0.238	0.013	0.240	0.011				
	Ω_b	0.043	0.007	0.045	0.007	0.044	0.007	0.044	0.007	0.045	0.003	0.047	0.003				
	h	0.716	0.051	0.711	0.050	0.716	0.050	0.701	0.048	0.727	0.018	0.721	0.015				
	n_s	0.957	0.056	0.964	0.057	0.963	0.055	0.965	0.055	0.950	0.022	0.959	0.016				
Multiplicative	m_1	0.012	0.023	0.012	0.023	0.018	0.028	0.014	0.026	0.012	0.023	0.012	0.023				
	m_2	0.011	0.022	0.011	0.023	0.026	0.043	0.019	0.039	0.012	0.023	0.012	0.023				
	m_3	0.019	0.022	0.018	0.022	0.015	0.027	0.013	0.027	0.019	0.021	0.020	0.022				
	m_4	0.009	0.022	0.008	0.022	-0.001	0.032	0.003	0.031	0.009	0.021	0.010	0.021				
Shifts (WL)	$\delta_\gamma^{(1)}$	-0.002	0.015	-0.002	0.015	-0.005	0.016	-0.003	0.014	-0.001	0.015	-0.002	0.015				
	$\delta_\gamma^{(2)}$	-0.029	0.011	-0.029	0.012	-0.035	0.019	-0.032	0.018	-0.028	0.011	-0.027	0.011				
	$\delta_\gamma^{(3)}$	0.007	0.010	0.007	0.010	0.005	0.011	0.007	0.011	0.008	0.010	0.009	0.010				
	$\delta_\gamma^{(4)}$	-0.020	0.020	-0.020	0.020	-0.019	0.023	-0.023	0.021	-0.020	0.019	-0.019	0.019				
Intrinsic Alignment	A_{IA}	0.356	0.184	0.353	0.184	0.373	0.152	0.383	0.161	0.550	0.120	0.568	0.122				
	η	-0.003	2.579	-0.116	2.583	-0.025	1.808	-0.040	1.536	0.104	1.820	0.381	1.487				
Galaxy bias	b_1	1.382	0.124	1.372	0.133	1.359	0.110	1.360	0.110	1.419	0.084	1.447	0.075				
	b_2	1.694	0.129	1.681	0.144	1.654	0.116	1.645	0.121	1.742	0.076	1.774	0.070				
	b_3	1.652	0.121	1.643	0.136	1.623	0.104	1.620	0.113	1.696	0.071	1.728	0.066				
	b_4	2.044	0.151	2.027	0.167	2.009	0.128	1.992	0.143	2.096	0.089	2.136	0.091				
	b_5	2.080	0.160	2.066	0.176	2.028	0.143	2.014	0.156	2.138	0.098	2.180	0.098				
Shifts (GC)	$\delta_g^{(1)}$	0.001	0.007	0.001	0.007	0.001	0.008	0.002	0.008	0.000	0.007	0.000	0.007				
	$\delta_g^{(2)}$	0.002	0.007	0.002	0.007	0.001	0.007	0.002	0.007	0.001	0.007	0.002	0.007				
	$\delta_g^{(3)}$	0.002	0.007	0.002	0.006	0.003	0.007	0.003	0.007	0.003	0.006	0.002	0.006				
	$\delta_g^{(4)}$	0.002	0.009	0.003	0.009	0.003	0.010	0.002	0.010	0.002	0.009	0.002	0.009				
	$\delta_g^{(5)}$	0.000	0.010	-0.001	0.010	0.000	0.010	-0.002	0.010	-0.001	0.010	-0.001	0.010				

Table 2: Summary statistics of all the parameters