MNRAS **000**, 1–?? (2014) Preprint 15 February 2020 Compiled using MNRAS LATEX style file v3.0

Synergies of Large-Scale Structure and Cosmic Microwave Background Data in the 2020s

We[1]★
[1] *Here*

Accepted . Received ; in original form

ABSTRACT

Key words: cosmological parameters – theory –large-scale structure of the Universe

Table 1. Fiducial parameters, flat priors (min, max) for cosmology and galaxy bias, and Gaussian priors (μ, σ) for observational systematics. We consider optimistic and pessimistic scenarios in this paper, which is indicated in the corresponding sections of the table.

Parameter	Fiducial	Prior
	Survey	
Ω_s	18,000 deg^2	fixed
$n_{\rm source}$	51 gal/arcmin^2	fixed
$n_{\rm lens}$	66 gal/arcmin^2	fixed
σ_ϵ	0.26	fixed
	Cosmology	
$\Omega_{\rm m}$	0.3156	flat (0.1, 0.6)
σ_8	0.831	flat (0.6, 0.95)
n_s	0.9645	flat (0.85, 1.06)
w_0	-1.0	flat (-2.0, 0.0)
w_a	0.0	flat (-2.5, 2.5)
$\Omega_{\rm b}$	0.0492	flat (0.04, 0.055)
h_0	0.6727	flat (0.6, 0.76)

★ E-mail:

Table 2. Fiducial parameters, flat priors (min, max) for cosmology and galaxy bias, and Gaussian priors (μ, σ) for observational systematics. We consider optimistic and pessimistic scenarios in this paper, which is indicated in the corresponding sections of the table.

Lens Sample = Source Sample		
	Galaxy bias (tomographic bins)	
$b^i_{\rm g}$	1.3 + i × 0.1	flat (0.8, 3.0)
	Lens photo-z (optimistic)	
$\Delta^i_{\rm z,lens}$	0.0	Gauss (0.0, 0.002)
$\sigma_{\rm z,lens}$	0.01	Gauss (0.01, 0.002)
	Source photo-z (optimistic)	

Table 3. Fiducial parameters, flat priors (min, max) for cosmology and galaxy bias, and Gaussian priors (μ, σ) for observational systematics. We consider optimistic and pessimistic scenarios in this paper, which is indicated in the corresponding sections of the table.

Lens Sample = Redmagic		
	Galaxy bias (tomographic bins)	
$b^i_{\rm g}$	1.3 + i × 0.1	flat (0.8, 3.0)
	Lens photo-z (optimistic)	
$\Delta^i_{\rm z,lens}$	0.0	Gauss (0.0, 0.002)
$\sigma_{\rm z,lens}$	0.01	Gauss (0.01, 0.002)
	Source photo-z (optimistic)	
$\Delta^i_{\rm z,source}$	0.0	Gauss (0.0, 0.002)
$\sigma_{\rm z,source}$	0.01	Gauss (0.01, 0.002)
	Shear calibration (optimistic)	
m_i	0.0	Gauss (0.0, 0.002)

Table 4. Fiducial parameters, flat priors (min, max) for cosmology and galaxy bias, and Gaussian priors (μ, σ) for observational systematics. We consider optimistic and pessimistic scenarios in this paper, which is indicated in the corresponding sections of the table.

Lens Sample = Gold Sample		
Galaxy bias (tomographic bins)		
$b_{\rm g}^i$	1.3 + i × 0.1	flat (0.8, 3.0)
Lens photo-z (optimistic)		
$\Delta_{\rm z,lens}^i$	0.0	Gauss (0.0, 0.002)
$\sigma_{\rm z,lens}$	0.01	Gauss (0.01, 0.002)
Source photo-z (optimistic)		
$\Delta_{\rm z,source}^i$	0.0	Gauss (0.0, 0.002)
$\sigma_{\rm z,source}$	0.01	Gauss (0.01, 0.002)
Shear calibration (optimistic)		
m_i	0.0	Gauss (0.0, 0.002)