

Extended Data Table 1 | Galaxy properties

ID	COS-3018555981	COS-2987030247
z_{phot}^7	6.76 ± 0.07	6.66 ± 0.14
$z_{\text{[CII]}}^*$	6.8540 ± 0.0003	6.8076 ± 0.0002
S/N^\dagger	8.2	5.1
[C II] line flux (Jy km s^{-1})*	0.39 ± 0.05	0.31 ± 0.04
$\text{FWHM}_{\text{[CII]}} (\text{km s}^{-1})^*$	232 ± 30	124 ± 18
158 μm continuum flux (μJy)	$< 87^\ddagger$	$< 75^\ddagger$
$L_{\text{[CII]}} (10^8 L_\odot)$	4.7 ± 0.5	3.6 ± 0.5
$L_{\text{UV}} (10^{11} L_\odot)$	1.1 ± 0.1	1.3 ± 0.1
$L_{\text{IR}} (10^{11} L_\odot)$	$< 1.3^\ddagger$	$< 1.1^\ddagger$
$\text{SFR}_{\text{IR}} (M_\odot \text{ yr}^{-1})$	$< 19^\ddagger$	$< 16^\ddagger$
$\text{SFR}_{\text{UV}} (M_\odot \text{ yr}^{-1})$	19.2 ± 1.6	22.7 ± 2.0
$M_* (10^9 M_\odot)$	$1.4^{+0.7}_{-0.2}$	$1.7^{+0.5}_{-0.2}$
$M_{\text{dyn}} (10^9 M_\odot)$	10^{+3}_2	4^{+9}_3
$\Delta v_{\text{obs}} / 2\sigma_{\text{tot}}$	0.57 ± 0.16	0.52 ± 0.21
$r_{1/2, \text{[CII]}} (\text{kpc})$	2.6 ± 0.8	3.1 ± 1.0
β_{UV}	-1.22 ± 0.51	-1.18 ± 0.53
$\text{EW}([\text{O III}] + \text{H}\beta) (\text{\AA})^7$	1424 ± 143	1128 ± 166

*These values were measured from a Gaussian fit to the integrated spectrum within the half-peak-power contour.

[†]The signal-to-noise ratio (S/N) was measured in a beam-sized aperture (centred on the HST counterpart) on a velocity-averaged image extracted over the detected line.

[‡] 3σ limit.