Table 1: Dynamical properties for each model. For each property, the Header Data Unit (HDU) in which it is stored, the name, its units, and a brief description are presented. The HDU ranging from 2 to 9 correspond to models $JAM_{cyl} + MFL$, $JAM_{sph} + MFL$, $JAM_{sph} + NFW$, $JAM_{sph} + NFW$, $JAM_{cyl} + fixedNFW$, $JAM_{sph} + fixedNFW$, $JAM_{cyl} + gNFW$, $JAM_{sph} + gNFW$.

HDU	Name	Units	Description
(1)	(2)	(3)	(4)
0	Primary		Empty primary header
1	plate		The plate ID (e.g. 7443)
	ifudsgn		The IFU design ID (e.g. 12703)
	plateifu		The plate+ifudsgn name (e.g. 7443-12703)
	mangaid	1	Unique MaNGA ID (e.g. 1-114145)
	obj_ra	degree	Right ascension of the science object in J2000
	obj_dec	degree	Declination of the science object in J2000
	ebvgal		E(B-V) value from sdss dust routine for this IFU
	target	1	Flag for subsample of MaNGA (Primary: 0, Secondary: 1, colour-Enhanced: 2)
	rmax	kpc	The largest radius of the kinematic data
	DA	Mpc	Adopted angular-diameter distance,
	Do Irao MCE	Irmo	with a flat Universe of $\Omega_{\rm m} = 0.307$, $h = 0.677$ (Planck Collaboration et al. 2016)
	Re_kpc_MGE	kpc	Effective radius (projected circular half-light radius from MGE fitting, in SDSS r-band)
	Rmaj_kpc_MGE	kpc	Major axis of elliptical half-light isophote from MGE fitting, in SDSS r-band
	Lum_tot_MGE	$\lg(L_{\odot})$	Total luminosity from MGE fitting, in SDSS r-band, not corrected for the Galactic and internal dust extinction
	Lambda_Re		Specific stellar angular momentum within elliptical half-light isophote, beam corrected
	Sigma_Re	${\rm km}{\rm s}^{-1}$	Effective velocity dispersion within elliptical half-light isophote
	Eps_MGE	KIII 5	Ellipticity of the half-light isophote from MGE fitting
	PA_phot	degree	The photometric position angle (PA†) measured from MGE fitting, in SDSS r-band
	PA_kin	degree	The kinematic PA measured from MaNGA velocity field
	PA_kin_flag		The flag for kinematic PA (0 for unreliable, 1 for reliable)
	nsa_iauname		The accepted IAU name
	Z		Redshift of the galaxy
	nsa_field		The SDSS field covering the target
	nsa_run		The SDSS run covering the target
	nsa_camcol		The SDSS camcol covering catalogue position
	nsa_version		The version of the NSA catalogue used to select these targets
	nsa_id		The NSAID field in the NSA catalogue v1
	nsa_nsaid_v1b		The NSAID of the target in the NSA_v1b_0_0_v2 catalogue (if applicable)
	nsa_sersic_absmag		Absolute magnitude estimates for FNugriz from K-corrections ($\Omega_{\rm m}$ = 0.3,
			$\Omega_{\Lambda}=0.7,h=1)$, the value is interpreted as M-5lgh
	nsa_elpetro_absmag		As nsa_sersic_absmag but from elliptical Petrosian apertures
	nsa_sersic_mass	$lg(h^{-2}\;M_{\odot})$	Stellar mass from K-correction fit for Sersic fluxes
	nsa_elpetro_mass	$lg(h^{-2}\;M_{\odot})$	Stellar mass from K-correction fit for elliptical Petrosian fluxes
	nsa_sersic_ba		Axial ratio b/a from 2D Sersic fit in SDSS r-band
	nsa_sersic_n		Sersic index from 2D Sersic fit in SDSS r-band
	nsa_sersic_phi	degree	Angle (E of N) of major axis in 2D Sersic fit (r-band)
	nsa_sersic_th50	arcsec	Sersic 50% light radius along major axis (r-band)
	nsa_sersic_flux	nanomaggies	2D Sersic fit flux in FNugriz (GALEX-SDSS photometric systems)
	Qual		Visual quality of JAM models, classified as -1, 0, 1, 2, 3 (from worst to best)
	drp3qual		Data reduction quality marked by DRP pipeline,
			1 for high-quality, 0 for critical-quality or unusual quality
2	inc_deg	degree	Best-fit inclination angle (being 90° for edge-on)
(JAM _{cyl} +	beta_z	1 (34 /7)	Best-fit radial velocity anisotropy in cylindrical coordinates
MFL)	log_ML_dyn	$lg(M_{\odot}/L_{\odot})$	Best-fit dynamical mass-to-light ratio
	kappa	la(M.)	The ratio between modelled line-of-sight velocity field and the observed one
	log_Mt_Re	$lg(M_{\odot})$	Enclosed total mass within a sphere of effective radius Continued on next page

^{*} Following eq. 5 of Graham et al. (2018)

[†] The standard astronomical PA measured counter-clockwise from the image Y-axis (assumed to coincide with North).

Table 1 – continued

			Table 1 – continued
HDU	Parameters	Units	Description
(1)	(2)	(3)	(4)
	chi2_dof		The reduced chi-square of the best-fit model (The values are scaled to
			account for the effect of standard deviation of the χ^2 itself,
			should be only used in the comparison between different models)
	rhalf_kpc	kpc	Radius of the sphere which encloses half the total luminosity
	log_Mt_rhalf	$lg(M_{\odot})$	Enclosed total mass within a sphere of 3D half-light radius
	MW_Gt_Re		Mass-weighted total density slope within a sphere of effective radius
	MW_Gt_rhalf		Mass-weighted total density slope within a sphere of 3D half-light radius
	Gt_Re		Average logarithmic total density slope between 0.1 and 1 effective radius
3	inc_deg	degree	Best-fit inclination angle (being 90° for edge-on)
(JAM _{sph} +	beta_r	. (3.5. (5.)	Best-fit radial velocity anisotropy in spherical coordinates
MFL)	log_ML_dyn	$lg(M_{\odot}/L_{\odot})$	Best-fit dynamical mass-to-light ratio
	kappa	1 (3.5.)	The ratio between modelled line-of-sight velocity field and the observed one
	log_Mt_Re	$lg(M_{\odot})$	Enclosed total mass within a sphere of effective radius
	chi2_dof		The reduced chi-square of the best-fit model (The values are scaled to
			account for the effect of standard deviation of the χ^2 itself,
	1 10 1		should be only used in the comparison between different models)
	rhalf_kpc	kpc	Radius of the sphere which encloses half the total luminosity
	log_Mt_rhalf	$lg(M_{\odot})$	Enclosed total mass within a sphere of 3D half-light radius
	MW_Gt_Re		Mass-weighted total density slope within a sphere of effective radius
	MW_Gt_rhalf		Mass-weighted total density slope within a sphere of 3D half-light radius
	Gt_Re		Average logarithmic total density slope between 0.1 and 1 effective radius
4 (IAM -	inc_deg		Best-fit inclination angle (being 90° for edge-on)
(JAM _{cyl} +	beta_z	$lg(M_{\odot}/L_{\odot})$	Best-fit radial velocity anisotropy in cylindrical coordinates
NFW)	log_ML_stellar	$lg(M_{\odot}/L_{\odot})$ $lg(M_{\odot} kpc^{-3})$	Best-fit stellar mass-to-light ratio The characteristic density of NFW profile
	log_rho_s rs	lg(M _☉ kpc) kpc	The break radius of NFW profile
	kappa	крс	The ratio between modelled line-of-sight velocity field and the observed one
	log_Mt_Re	$\lg(M_{\odot})$	Enclosed total mass within a sphere of effective radius
	log_Ms_Re	$\lg(\mathbf{M}_{\odot})$	Enclosed total mass within a sphere of effective radius Enclosed stellar mass within a sphere of effective radius
	log_Md_Re	$\lg(M_{\odot})$	Enclosed dark matter mass within a sphere of effective radius
	fdm_Re	18(1110)	Dark matter fraction within a sphere of effective radius
	log_ML_dyn_Re	$lg(M_{\odot}/L_{\odot})$	Dynamical mass-to-light ratio within effective radius
	chi2_dof	8(0/ 0/	The reduced chi-square of the best-fit model (The values are scaled to
	_		account for the effect of standard deviation of the χ^2 itself,
			should be only used in the comparison between different models)
	rhalf_kpc	kpc	Radius of the sphere which encloses half the total luminosity
	log_Mt_rhalf	$\lg(\mathrm{M}_{\odot}/\mathrm{L}_{\odot})$	Enclosed total mass within a sphere of 3D half-light radius
	log_Ms_rhalf	$lg(M_{\odot}/L_{\odot})$	Enclosed stellar mass within a sphere of 3D half-light radius
	log_Md_rhalf	$\lg(\mathrm{M}_{\odot}/\mathrm{L}_{\odot})$	Enclosed dark matter mass within a sphere of 3D half-light radius
	MW_Gt_Re		Mass-weighted total density slope within a sphere of effective radius
	MW_Gs_Re		Mass-weighted stellar density slope within a sphere of effective radius
	MW_Gd_Re		Mass-weighted dark matter density slope within a sphere of effective radius
	MW_Gt_rhalf		Mass-weighted total density slope within a sphere of 3D half-light radius
	MW_Gs_rhalf		Mass-weighted stellar density slope within a sphere of 3D half-light radius
	MW_Gd_rhalf		Mass-weighted dark matter density slope within a sphere of 3D half-light radius
	Gt_Re		Average logarithmic total density slope between 0.1 and 1 effective radius
	Gs_Re		Average logarithmic stellar density slope between 0.1 and 1 effective radius
	Gd_Re		Average logarithmic dark matter density slope between 0.1 and 1 effective radius
5	inc_deg		Best-fit inclination angle (being 90° for edge-on)
$(JAM_{sph} +$	beta_r		Best-fit radial velocity anisotropy in spherical coordinates
NFW)	log_ML_stellar	$\lg(\mathrm{M}_{\odot}/\mathrm{L}_{\odot})$	Best-fit stellar mass-to-light ratio
	log_rho_s	$lg(M_{\odot} kpc^{-3})$	The characteristic density of NFW profile
	rs	kpc	The break radius of NFW profile
	kappa		The ratio between modelled line-of-sight velocity field and the observed one
	log_Mt_Re	$\lg(\mathrm{M}_{\odot})$	Enclosed total mass within a sphere of effective radius
	log_Ms_Re	$\lg(\mathrm{M}_{\odot})$	Enclosed stellar mass within a sphere of effective radius
	log_Md_Re	lg(M _☉)	Enclosed dark matter mass within a sphere of effective radius
			Continued on next page

Table 1 – continued

			Table 1 – continued
HDU	Parameters	Units	Description
(1)	(2)	(3)	(4)
	fdm_Re		Dark matter fraction within a sphere of effective radius
	log_ML_dyn_Re	$lg(M_{\odot}/L_{\odot})$	Dynamical mass-to-light ratio within effective radius
	chi2_dof		The reduced chi-square of the best-fit model (The values are scaled to
			account for the effect of standard deviation of the χ^2 itself,
			should be only used in the comparison between different models)
	rhalf_kpc	kpc	Radius of the sphere which encloses half the total luminosity
	log_Mt_rhalf	$lg(M_{\odot}/L_{\odot})$	Enclosed total mass within a sphere of 3D half-light radius
	log_Ms_rhalf	$lg(M_{\odot}/L_{\odot})$	Enclosed stellar mass within a sphere of 3D half-light radius
	log_Md_rhalf	$lg(M_{\odot}/L_{\odot})$	Enclosed dark matter mass within a sphere of 3D half-light radius
	MW_Gt_Re		Mass-weighted total density slope within a sphere of effective radius
	MW_Gs_Re		Mass-weighted stellar density slope within a sphere of effective radius
	MW_Gd_Re		Mass-weighted dark matter density slope within a sphere of effective radius
	MW_Gt_rhalf		Mass-weighted total density slope within a sphere of 3D half-light radius
	MW_Gs_rhalf		Mass-weighted stellar density slope within a sphere of 3D half-light radius
	MW_Gd_rhalf		Mass-weighted dark matter density slope within a sphere of 3D half-light radius
	Gt_Re		Average logarithmic total density slope between 0.1 and 1 effective radius
	Gs_Re		Average logarithmic stellar density slope between 0.1 and 1 effective radius
	Gd_Re		Average logarithmic dark matter density slope between 0.1 and 1 effective radius
6	inc_deg		Best-fit inclination angle (being 90° for edge-on)
(JAM _{cyl} +	beta_z		Best-fit radial velocity anisotropy in cylindrical coordinates
fixed NFW)	log_ML_stellar	$\lg(\mathrm{M}_{\odot}/\mathrm{L}_{\odot})$	Best-fit stellar mass-to-light ratio
	log_rho_s	$lg(M_{\odot} kpc^{-3})$	The characteristic density of NFW profile
	rs	kpc	The break radius of NFW profile
	kappa		The ratio between modelled line-of-sight velocity field and the observed one
	log_Mt_Re	$\lg(\mathrm{M}_{\odot})$	Enclosed total mass within a sphere of effective radius
	log_Ms_Re	$\lg(\mathrm{M}_{\odot})$	Enclosed stellar mass within a sphere of effective radius
	log_Md_Re	$\lg(\mathrm{M}_{\odot})$	Enclosed dark matter mass within a sphere of effective radius
	fdm_Re		Dark matter fraction within a sphere of effective radius
	log_ML_dyn_Re	$lg(M_{\odot}/L_{\odot})$	Dynamical mass-to-light ratio within effective radius
	chi2_dof		The reduced chi-square of the best-fit model (The values are scaled to
			account for the effect of standard deviation of the χ^2 itself,
			should be only used in the comparison between different models)
	rhalf_kpc	kpc	Radius of the sphere which encloses half the total luminosity
	log_Mt_rhalf	$lg(M_{\odot}/L_{\odot})$	Enclosed total mass within a sphere of 3D half-light radius
	log_Ms_rhalf	$lg(M_{\odot}/L_{\odot})$	Enclosed stellar mass within a sphere of 3D half-light radius
	log_Md_rhalf	$lg(M_{\odot}/L_{\odot})$	Enclosed dark matter mass within a sphere of 3D half-light radius
	MW_Gt_Re		Mass-weighted total density slope within a sphere of effective radius
	MW_Gs_Re		Mass-weighted stellar density slope within a sphere of effective radius
	MW_Gd_Re		Mass-weighted dark matter density slope within a sphere of effective radius
	MW_Gt_rhalf		Mass-weighted total density slope within a sphere of 3D half-light radius
	MW_Gs_rhalf		Mass-weighted stellar density slope within a sphere of 3D half-light radius Mass-weighted dark matter density slope within a sphere of 3D half-light radius
	MW_Gd_rhalf		Average logarithmic total density slope between 0.1 and 1 effective radius
	Gt_Re Gs_Re		Average logarithmic total density slope between 0.1 and 1 effective radius Average logarithmic stellar density slope between 0.1 and 1 effective radius
	Gd_Re		Average logarithmic sterial density slope between 0.1 and 1 effective radius Average logarithmic dark matter density slope between 0.1 and 1 effective radius
7	inc_deg		Best-fit inclination angle (being 90° for edge-on)
(JAM _{sph} +	beta_r		Best-fit radial velocity anisotropy in spherical coordinates
fixed NFW)	log_ML_stellar	$lg(M_{\odot}/L_{\odot})$	Best-fit stellar mass-to-light ratio
incu ini w)	log_rho_s	$lg(M_{\odot}/L_{\odot})$ $lg(M_{\odot} kpc^{-3})$	The characteristic density of NFW profile
	rs	lg(M _☉ kpc) kpc	The break radius of NFW profile
	kappa	KPC	The ratio between modelled line-of-sight velocity field and the observed one
	log_Mt_Re	$\lg(M_{\odot})$	Enclosed total mass within a sphere of effective radius
	log_Mt_Re	$\lg(\mathrm{M}_{\odot})$ $\lg(\mathrm{M}_{\odot})$	Enclosed total mass within a sphere of effective radius Enclosed stellar mass within a sphere of effective radius
	log_Md_Re	$\lg(\mathrm{M}_{\odot})$ $\lg(\mathrm{M}_{\odot})$	Enclosed sterial mass within a sphere of effective radius Enclosed dark matter mass within a sphere of effective radius
	fdm_Re	18(1 V 1⊙)	Dark matter fraction within a sphere of effective radius
	log_ML_dyn_Re	$lg(M_{\odot}/L_{\odot})$	Dynamical mass-to-light ratio within effective radius
	chi2_dof	18(1V10/L0)	The reduced chi-square of best-fit model (The values are scaled to
	51112_dO1		Continued on next page

Table 1 – continued

			Table 1 – continued
HDU	Parameters	Units	Description
(1)	(2)	(3)	(4)
			account for the effect of standard deviation of the χ^2 itself,
			should be only used in the comparison between different models)
	rhalf_kpc	kpc	Radius of the sphere which encloses half the total luminosity
	log_Mt_rhalf	$lg(M_{\odot}/L_{\odot})$	Enclosed total mass within a sphere of 3D half-light radius
	log_Ms_rhalf	$lg(M_{\odot}/L_{\odot})$	Enclosed stellar mass within a sphere of 3D half-light radius
	log_Md_rhalf	$lg(M_{\odot}/L_{\odot})$	Enclosed dark matter mass within a sphere of 3D half-light radius
	MW_Gt_Re		Mass-weighted total density slope within a sphere of effective radius
	MW_Gs_Re		Mass-weighted stellar density slope within a sphere of effective radius
	MW_Gd_Re		Mass-weighted dark matter density slope within a sphere of effective radius
	MW_Gt_rhalf		Mass-weighted total density slope within a sphere of 3D half-light radius
	MW_Gs_rhalf		Mass-weighted stellar density slope within a sphere of 3D half-light radius
	MW_Gd_rhalf		Mass-weighted dark matter density slope within a sphere of 3D half-light radius
	Gt_Re		Average logarithmic total density slope between 0.1 and 1 effective radius
	Gs_Re		Average logarithmic stellar density slope between 0.1 and 1 effective radius
	Gd_Re		Average logarithmic dark matter density slope between 0.1 and 1 effective radius
8	inc_deg		Best-fit inclination angle (being 90° for edge-on)
(JAM _{cvl} +	beta_z		Best-fit radial velocity anisotropy in cylindrical coordinates
gNFW)	log_ML_stellar	$lg(M_{\odot}/L_{\odot})$	Best-fit stellar mass-to-light ratio
givi vv)			
	log_rho_s	$lg(M_{\odot} kpc^{-3})$	The characteristic density of gNFW profile
	rs	kpc	The break radius of gNFW profile
	gamma_gNFW		The inner density slope of gNFW profile
	kappa	1 (14)	The ratio between modelled line-of-sight velocity field and the observed one
	log_Mt_Re	$\lg(\mathrm{M}_{\odot})$	Enclosed total mass within a sphere of effective radius
	log_Ms_Re	$\lg(\mathrm{M}_{\odot})$	Enclosed stellar mass within a sphere of effective radius
	log_Md_Re	$\lg(\mathrm{M}_{\odot})$	Enclosed dark matter mass within a sphere of effective radius
	fdm_Re		Dark matter fraction within a sphere of effective radius
	log_ML_dyn_Re	$lg(M_{\odot}/L_{\odot})$	Dynamical mass-to-light ratio within effective radius
	chi2_dof		The reduced chi-square of the best-fit model (The values are scaled to
			account for the effect of standard deviation of the χ^2 itself,
			should be only used in the comparison between different models)
	rhalf_kpc	kpc	Radius of the sphere which encloses half the total luminosity
	log_Mt_rhalf	$lg(M_{\odot}/L_{\odot})$	Enclosed total mass within a sphere of 3D half-light radius
	log_Ms_rhalf	$lg(M_{\odot}/L_{\odot})$	Enclosed stellar mass within a sphere of 3D half-light radius
	log_Md_rhalf	$lg(M_{\odot}/L_{\odot})$	Enclosed dark matter mass within a sphere of 3D half-light radius
	MW_Gt_Re		Mass-weighted total density slope within a sphere of effective radius
	MW_Gs_Re		Mass-weighted stellar density slope within a sphere of effective radius
	MW_Gd_Re		Mass-weighted dark matter density slope within a sphere of effective radius
	MW_Gt_rhalf		Mass-weighted total density slope within a sphere of 3D half-light radius
	MW_Gs_rhalf		Mass-weighted stellar density slope within a sphere of 3D half-light radius
	MW_Gd_rhalf		Mass-weighted dark matter density slope within a sphere of 3D half-light radius
			Average logarithmic total density stone netween U L and L effective radius
	Gt_Re		Average logarithmic total density slope between 0.1 and 1 effective radius
	Gt_Re Gs_Re		Average logarithmic stellar density slope between 0.1 and 1 effective radius
	Gt_Re Gs_Re Gd_Re		Average logarithmic stellar density slope between 0.1 and 1 effective radius Average logarithmic dark matter density slope between 0.1 and 1 effective radius
9 (IAM . +	Gt_Re Gs_Re Gd_Re inc_deg		Average logarithmic stellar density slope between 0.1 and 1 effective radius Average logarithmic dark matter density slope between 0.1 and 1 effective radius Best-fit inclination angle (being 90° for edge-on)
(JAM _{sph} +	Gt_Re Gs_Re Gd_Re inc_deg beta_r	la(M /I)	Average logarithmic stellar density slope between 0.1 and 1 effective radius Average logarithmic dark matter density slope between 0.1 and 1 effective radius Best-fit inclination angle (being 90° for edge-on) Best-fit radial velocity anisotropy in spherical coordinates
	Gt_Re Gs_Re Gd_Re inc_deg beta_r log_ML_stellar	$\lg(M_{\odot}/L_{\odot})$	Average logarithmic stellar density slope between 0.1 and 1 effective radius Average logarithmic dark matter density slope between 0.1 and 1 effective radius Best-fit inclination angle (being 90° for edge-on) Best-fit radial velocity anisotropy in spherical coordinates Best-fit stellar mass-to-light ratio
(JAM _{sph} +	Gt_Re Gs_Re Gd_Re inc_deg beta_r log_ML_stellar log_rho_s	$lg(M_{\odot} kpc^{-3})$	Average logarithmic stellar density slope between 0.1 and 1 effective radius Average logarithmic dark matter density slope between 0.1 and 1 effective radius Best-fit inclination angle (being 90° for edge-on) Best-fit radial velocity anisotropy in spherical coordinates Best-fit stellar mass-to-light ratio The characteristic density of gNFW profile
(JAM _{sph} +	Gt_Re Gs_Re Gd_Re inc_deg beta_r log_ML_stellar log_rho_s rs		Average logarithmic stellar density slope between 0.1 and 1 effective radius Average logarithmic dark matter density slope between 0.1 and 1 effective radius Best-fit inclination angle (being 90° for edge-on) Best-fit radial velocity anisotropy in spherical coordinates Best-fit stellar mass-to-light ratio The characteristic density of gNFW profile The break radius of gNFW profile
(JAM _{sph} +	Gt_Re Gs_Re Gd_Re inc_deg beta_r log_ML_stellar log_rho_s rs gamma_gNFW	$lg(M_{\odot} kpc^{-3})$	Average logarithmic stellar density slope between 0.1 and 1 effective radius Average logarithmic dark matter density slope between 0.1 and 1 effective radius Best-fit inclination angle (being 90° for edge-on) Best-fit radial velocity anisotropy in spherical coordinates Best-fit stellar mass-to-light ratio The characteristic density of gNFW profile The break radius of gNFW profile The inner density slope of gNFW profile
(JAM _{sph} +	Gt_Re Gs_Re Gd_Re inc_deg beta_r log_ML_stellar log_rho_s rs gamma_gNFW kappa	$\begin{array}{c} lg(M_{\odot} \; kpc^{-3}) \\ kpc \end{array}$	Average logarithmic stellar density slope between 0.1 and 1 effective radius Average logarithmic dark matter density slope between 0.1 and 1 effective radius Best-fit inclination angle (being 90° for edge-on) Best-fit radial velocity anisotropy in spherical coordinates Best-fit stellar mass-to-light ratio The characteristic density of gNFW profile The break radius of gNFW profile The inner density slope of gNFW profile The ratio between modelled line-of-sight velocity field and the observed one
(JAM _{sph} +	Gt_Re Gs_Re Gd_Re inc_deg beta_r log_ML_stellar log_rho_s rs gamma_gNFW kappa log_Mt_Re	$\lg(\mathrm{M}_{\odot}\ \mathrm{kpc}^{-3})$ kpc $\lg(\mathrm{M}_{\odot})$	Average logarithmic stellar density slope between 0.1 and 1 effective radius Average logarithmic dark matter density slope between 0.1 and 1 effective radius Best-fit inclination angle (being 90° for edge-on) Best-fit radial velocity anisotropy in spherical coordinates Best-fit stellar mass-to-light ratio The characteristic density of gNFW profile The break radius of gNFW profile The inner density slope of gNFW profile The ratio between modelled line-of-sight velocity field and the observed one Enclosed total mass within a sphere of effective radius
(JAM _{sph} +	Gt_Re Gs_Re Gd_Re inc_deg beta_r log_ML_stellar log_rho_s rs gamma_gNFW kappa log_Mt_Re log_Ms_Re	$\lg(M_{\odot} \ kpc^{-3})$ kpc $\lg(M_{\odot})$ $\lg(M_{\odot})$	Average logarithmic stellar density slope between 0.1 and 1 effective radius Average logarithmic dark matter density slope between 0.1 and 1 effective radius Best-fit inclination angle (being 90° for edge-on) Best-fit radial velocity anisotropy in spherical coordinates Best-fit stellar mass-to-light ratio The characteristic density of gNFW profile The break radius of gNFW profile The inner density slope of gNFW profile The ratio between modelled line-of-sight velocity field and the observed one Enclosed total mass within a sphere of effective radius Enclosed stellar mass within a sphere of effective radius
(JAM _{sph} +	Gt_Re Gs_Re Gd_Re inc_deg beta_r log_ML_stellar log_rho_s rs gamma_gNFW kappa log_Mt_Re log_Ms_Re log_Md_Re	$\lg(\mathrm{M}_{\odot}\ \mathrm{kpc}^{-3})$ kpc $\lg(\mathrm{M}_{\odot})$	Average logarithmic stellar density slope between 0.1 and 1 effective radius Average logarithmic dark matter density slope between 0.1 and 1 effective radius Best-fit inclination angle (being 90° for edge-on) Best-fit radial velocity anisotropy in spherical coordinates Best-fit stellar mass-to-light ratio The characteristic density of gNFW profile The break radius of gNFW profile The inner density slope of gNFW profile The ratio between modelled line-of-sight velocity field and the observed one Enclosed total mass within a sphere of effective radius Enclosed dark matter mass within a sphere of effective radius
(JAM _{sph} +	Gt_Re Gs_Re Gd_Re inc_deg beta_r log_ML_stellar log_rho_s rs gamma_gNFW kappa log_Mt_Re log_Ms_Re	$\lg(M_{\odot} \text{ kpc}^{-3})$ kpc $\lg(M_{\odot})$ $\lg(M_{\odot})$ $\lg(M_{\odot})$	Average logarithmic stellar density slope between 0.1 and 1 effective radius Average logarithmic dark matter density slope between 0.1 and 1 effective radius Best-fit inclination angle (being 90° for edge-on) Best-fit radial velocity anisotropy in spherical coordinates Best-fit stellar mass-to-light ratio The characteristic density of gNFW profile The break radius of gNFW profile The inner density slope of gNFW profile The ratio between modelled line-of-sight velocity field and the observed one Enclosed total mass within a sphere of effective radius Enclosed dark matter mass within a sphere of effective radius Dark matter fraction within a sphere of effective radius
(JAM _{sph} +	Gt_Re Gs_Re Gd_Re inc_deg beta_r log_ML_stellar log_rho_s rs gamma_gNFW kappa log_Mt_Re log_Ms_Re log_Md_Re	$\lg(M_{\odot} \ kpc^{-3})$ kpc $\lg(M_{\odot})$ $\lg(M_{\odot})$	Average logarithmic stellar density slope between 0.1 and 1 effective radius Average logarithmic dark matter density slope between 0.1 and 1 effective radius Best-fit inclination angle (being 90° for edge-on) Best-fit radial velocity anisotropy in spherical coordinates Best-fit stellar mass-to-light ratio The characteristic density of gNFW profile The break radius of gNFW profile The inner density slope of gNFW profile The ratio between modelled line-of-sight velocity field and the observed one Enclosed total mass within a sphere of effective radius Enclosed dark matter mass within a sphere of effective radius Dark matter fraction within a sphere of effective radius Dynamical mass-to-light ratio within effective radius
(JAM _{sph} +	Gt_Re Gs_Re Gd_Re inc_deg beta_r log_ML_stellar log_rho_s rs gamma_gNFW kappa log_Mt_Re log_Ms_Re log_Md_Re fdm_Re	$\lg(M_{\odot} \text{ kpc}^{-3})$ kpc $\lg(M_{\odot})$ $\lg(M_{\odot})$ $\lg(M_{\odot})$	Average logarithmic stellar density slope between 0.1 and 1 effective radius Average logarithmic dark matter density slope between 0.1 and 1 effective radius Best-fit inclination angle (being 90° for edge-on) Best-fit radial velocity anisotropy in spherical coordinates Best-fit stellar mass-to-light ratio The characteristic density of gNFW profile The break radius of gNFW profile The inner density slope of gNFW profile The ratio between modelled line-of-sight velocity field and the observed one Enclosed total mass within a sphere of effective radius Enclosed dark matter mass within a sphere of effective radius Dark matter fraction within a sphere of effective radius

Table 1 – continued

H	DU	Parameters	Units	Description
(1)	(2)	(3)	(4)
				should be only used in the comparison between different models)
		rhalf_kpc	kpc	Radius of the sphere which encloses half the total luminosity
		log_Mt_rhalf	$lg(M_{\odot}/L_{\odot})$	Enclosed total mass within a sphere of 3D half-light radius
		log_Ms_rhalf	$lg(M_{\odot}/L_{\odot})$	Enclosed stellar mass within a sphere of 3D half-light radius
		log_Md_rhalf	$lg(M_{\odot}/L_{\odot})$	Enclosed dark matter mass within a sphere of 3D half-light radius
		MW_Gt_Re		Mass-weighted total density slope within a sphere of effective radius
		MW_Gs_Re		Mass-weighted stellar density slope within a sphere of effective radius
		MW_Gd_Re		Mass-weighted dark matter density slope within a sphere of effective radius
		MW_Gt_rhalf		Mass-weighted total density slope within a sphere of 3D half-light radius
		MW_Gs_rhalf		Mass-weighted stellar density slope within a sphere of 3D half-light radius
		MW_Gd_rhalf		Mass-weighted dark matter density slope within a sphere of 3D half-light radius
		Gt_Re		Average logarithmic total density slope between 0.1 and 1 effective radius
		Gs_Re		Average logarithmic stellar density slope between 0.1 and 1 effective radius
		Gd_Re		Average logarithmic dark matter density slope between 0.1 and 1 effective radius

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