PGC: Principal Galaxies Catalog number.

coords: RA and Dec formatted in hours, minutes and seconds.

objid: SDSS photometric object identifier.

specObjID: SDSS spectroscopic object identifier.

plate: SDSS spectroscopic plate number.

RA: Right Ascension in deg.

Dec: Declination in deg.

l: Galactic longitude in deg.

b: Galactic latitude in deg.

deVMag_g: *g*-band apparent magnitude from a deVaucoleurs profile fit.

deVMagErr_g: error on g-band apparent magnitude from a deVaucoleurs profile fit.

deVMag_r: *r*-band apparent magnitude from a deVaucoleurs profile fit.

deVMagErr_r: error on *r*-band apparent magnitude from a deVaucoleurs profile fit.

deVRad_r: angular *r*-band scale radius from a deVaucoleurs profile fit.

deVRadErr_r: error on angular *r*-band scale radius from a deVaucoleurs profile fit.

deVAB_r: *r*-band axial ratio from a deVaucoleurs profile fit.

deVABErr_r: error on *r*-band axial ratio from a deVaucoleurs profile fit.

extinction_g: Milky Way Galactic extinction in the *g*-band.

extinction_r: Milky Way Galactic extinction in the *r*-band.

kcor_g: *g*-band *k*-correction from Chilingarian et. al., 2014 using *g-r* colours.

kcor_r: *r*-band *k*-correction from Chilingarian et. al., 2014 using *g-r* colours.

absmag_r: *r*-band absolute magnitude accounting for *k*-correction, evolution and Galactic extinction.

zhelio: observed heliocentric redshift.

zhelioerr: error in the observed heliocentric redshift.

zcmb: CMB-frame redshift using Planck CMB dipole.

SIGMA_STARS: velocity dispersion from the Portsmouth catalogue (Thomas et. al., 2013)

SIGMA_STARS_ERR: error on the velocity dispersion from the Portsmouth catalogue (Thomas et. al., 2013)

IDgroupT17: ID for Tempel et. al., 2017 group containing the galaxy.

NgroupT17: Total number of galaxies (including those not in the SDSS PV catalogue) in the Tempel et. al., 2017 group containing the galaxy.

zcmb_group: Group averaged, CMB-frame redshift for Tempel et. al., 2017 group containing the galaxy.

M: Tempel et. al., 2014 morphological classification. 0 = unclear, 1 = spiral, 2 = elliptical (all 1 entries have been removed already).

in_mask: Flag for whether galaxy is within the SDSS NYU-VAGC DR7 large scale structure angular mask. 1 means the galaxy *is* within the mask, and so can be used for clustering measurements or comparison with the provided random catalogue.

nbar: Number density of SDSS galaxies per unit volume at the galaxy's location. Units of h^3 Mpc^{-3}, used mainly for clustering measurements.

r: $\log_{10}$(effective radius). One of the fundamental plane parameters. Effective radius has units of h^{-1} kpc.

er: error on **r**.

i: $\log_{10}$(surface brightness at the effective radius). One of the fundamental plane parameters. Surface brightness has units of L_{sun} pc^{-2}.

ei: error on **i**.

s: $\log_{10}$(velocity dispersion). One of the fundamental plane parameters. Velocity dispersion has units of km s^{-1}.

es: error on **s**.

Sn: The weight given to each galaxy when fitting the fundamental plane. See Eqs. 16 & 18.

logdist: Mean of the logarithmic distance ratio distribution *from a single FP fit to the full sample.* Can be treated as the Gaussian mean if **logdist_alpha** is ignored (but is not the skew-normal 'location' parameter). Equivalent to $\log_{10}(d_z/d_H)$, where d_z is the distance to **zcmb** assuming some cosmological model, and d_H is the distance derived from the distance indicator.

logdist_err: Standard deviation of the logdistance ratio distribution *from a single FP fit to the full sample.* Can be treated as the Gaussian standard deviation if **logdist_alpha** is ignored (but is not the skew-normal 'scale' parameter).

logdist_alpha: The "alpha" parameter of the skew-normal pdf calculated for each galaxy's logarithmic distance ratio distribution *from a single FP fit to the full sample.* Gives an overall skewness quite close to zero because the pdf for each galaxy is close to Gaussian.

logdist_corr: Same as **logdist**, but *from multiple FP fits as a function of group richness.* This is the preferred measurement, but zero-point calibration should be carried out at the group-level (i.e., by assuming objects in the same group are at the same distance), not with individual objects.

logdist_corr_err: Same as **logdist_err**, but *from multiple FP fits as a function of group richness.* This is the preferred measurement but see caveat above.

logdist_corr_alpha: Same as **logdist_alpha**, but *from multiple FP fits as a function of group richness.* This is the preferred measurement but see caveat above.