

On the existence of extended dark matter halos around galaxies

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Abstract By carefully selecting isolated bright galaxies and their associated satellites using the full 2dF Galaxy Redshift Survey, we estimate the satellite velocity dispersion of stacked primaries as a function of luminosity. Detailed comparisons with the same selection criteria applied to mock 2dFGRS catalogues, obtained from high resolution N-Body simulations and populated with galaxies from semi-analytic schemes, allow a precise understanding of the different properties of the 2dFGRS satellite sample. Mass estimates of primary systems as a function of luminosity is presented and compared to recent works using either SDSS data or data from the 2dFGRS 100k release.