

## ABSTRACT ONLY

### VELOCITY FIELD AROUND GROUPS OF GALAXIES.

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We analyse the structure of the peculiar velocity field around groups of galaxies in the nearby Universe. We perform a statistical analysis of the infall of galaxies onto small groups using observational galaxy peculiar velocities data. We use one of the largest compendium of distances and peculiar velocities available, the Cosmicflows-2 catalog (Tully et al. 2013). In addition a sample of galaxies with peculiar velocities is taken from 2MTF (2MASS TullyFisher Survey; Tao Hong et al. 2012). As tracers of peaks in the density field we use galaxy groups identified in the first version of the 2MASS Redshift Survey (Huchra et al. 2005), by Crook et al. (2007).

The dependence of the infall velocity pattern with the properties of the groups (i.e, the luminosity and mass) is studied, as well as, an intensive analysis in how the global density and large scale bulk motions affects the velocity fields around the groups.

The observational results are compared with those obtained using mock catalogs derived from numerical simulations with semi-analytical models for galaxy formation.

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