

Clustering of Far-Infrared Galaxies in the AKARI All-Sky Survey

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Clustering of different classes of galaxies gives important clues about the relation of this class of galaxies to the general galaxies population, as well as to the underlying dark matter density field. Using the data from the AKARI All-Sky Survey, we estimate the angular correlation function of galaxies observed in the far-infrared.

It was shown (Pollo et al. 2010) that the color-color plots allow drawing separation lines between galaxies and stars. We also proved that the majority of galaxies luminous in the far infrared are nearby, often interacting, galaxies (Małek et al. 2010, Rybka et al. in prep.). We plan to present our measurements of the angular correlation function of these far-infrared galaxies, selected from the AKARI All-Sky Survey and discuss clustering properties of these galaxies with respect to the general population of galaxies, and possible placement of these galaxies in the large scale structure.

Keywords: galaxies; clustering; large scale structure; dust; infrared; cosmology.

References

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