

[P-051/GC-7] Study of Dusty Cores in the Large Magellanic Cloud

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We present recent results of the analysis on the MIPS/Spitzer images of the Large Magellanic Cloud.

[P-052/GC-8] High-redshift overdensities of galaxies in GOODS-Fields

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Recently, we have reported the discovery of possible overdensities of galaxies at $z \sim 3.7$ in the GOODS-South field. These overdensities are identified from a photometric redshift-selected sample and a BVz-selected sample with $3-7\sigma$ significant level. The line-of-sight velocity dispersions of these overdensities are found to be $\sigma_v \sim 500-800$ km/s, and the mass found to be a few $\times 10^{14} M_{\text{sun}}$. Using the same technique, we have expanded the search redshift in both the GOODS South and North fields. We find an overdensity at $z \sim 4$ in the GOODS-North which was previously claimed to be a possible site of overdensity based on submillimeter galaxy study (Daddi et al. 2009). The significance of this new overdensity is found to be 4σ from a BVz-selected sample. We will also report other possible overdensities at different redshift and discuss the implication of this result.

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