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Tomographic study of the anomalous cosmic dipole with LSST

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The recent data from high redshift Universe demonstrates that our velocity with respect to distant sources, for example quasars and radio galaxies at redshifts of more than one, is at least twice as large as our velocity with respect to the rest frame of cosmic microwave background (CMB). If the Universe is homogeneous and isotropic on large scales then the restframe of CMB is expected to coincide with the restframe of distant matter. A tomographic study of the evolution of the dipole starting from nearby to larger and larger scales is essential in order to understand the origin of this anomaly. I report on recent results from Wise satellite and outline how a tomographic map of the dipole can be achieved with the forthcoming LSST.

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