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Near-field Cosmology

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Our Local Universe may well be the best-observed volume of the Universe, but it is also a disruptive factor when it comes to observe beyond it. Using positions and peculiar velocities of more than 8,000 galaxies from the second Cosmicflows catalog, we are now able to reproduce in Constrained Local Universe Simulations the full three dimensional distribution of matter in the observed nearby large-scale structure with an accuracy of a few megaparsecs. The nearby objects like Virgo, the Local Group, etc. can be studied in great details and compared directly with observations. Therefore, in future high precision observational surveys, the foreground effect of the Local Universe can be accounted for.

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