

Multimessenger Research of Shapley Supercluster

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“The Shapley Supercluster is one of the largest and most massive structures in the nearby Universe at the distance of about 200 Mpc, consisting of thousands of galaxies. Multimessenger research has been a powerful tool in understanding the properties and evolution of this structure. The use of multiple messengers, such as electromagnetic radiation, high energy cosmic rays and neutrino, has allowed for a more complete understanding of the physics of the Shapley Supercluster, including its dynamics, particle acceleration, and dark matter content.

We present predicted spectra for neutrino and hadronic-induced diffuse gamma-ray emission of Shapley Supercluster.”

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