

# Cosmic-Ray Reservoirs as Non-Thermal Neutrino Sources

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Starburst galaxies and galaxy clusters/groups serve as the storage rooms of cosmic rays. It was theoretically predicted that such cosmic-ray reservoirs are promising sources of neutrinos and gamma rays. The models are indeed consistent with the high-energy neutrino data measured by IceCube, and that they could give a convergence picture of neutrinos, gamma rays and ultrahigh-energy cosmic rays. We review these neutrino sources and discuss the medium-energy excess problem.

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