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The Astrophysics of Galactic and Extragalactic Cosmic Rays

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The centers of star-forming galaxies are often characterized by dense concentrations of young massive stars along with large amounts of dense molecular gas, strong magnetic fields, and high radiation fields. Thus, regions of star-forming galaxies and regions of intense star formation naturally generate high number densities of cosmic rays and are therefore strong sources of radio, gamma-ray, and neutrino emission. As such, they are of particular interest for studying the fundamental properties of cosmic rays populations and their importance in feedback mechanisms. In this talk, I will present an overview of cosmic ray interaction models for starburst galaxies and and of the role of cosmic rays in galaxy evolution

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