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High-Energy Emission from Starburst Galaxies

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Detection of high-energy gamma-ray emission from starburst galaxies (such as nearby M82 and NGC 253, and faraway Arp 220) has established a direct link between leptonic and hadronic processes in an extragalactic non-AGN environment. We review the most relevant aspects of these processes, and contrast theoretical predictions with available radio and gamma-ray measurements, in order to determine the particles' spectral properties and energy densities in these galaxies.

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