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Star Formation Activity and Cosmic Rays Acceleration in Starburst Galaxies

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Starburst Galaxies (SBs) have higher star formation rate and supernova (SN) explosion rate. Therefore, SBs are promising cosmic-rays (CRs) accelerator. Such CRs produced in the birth and death of stars are expected to produce gamma-ray emission. The identification of supernova remnant and the observation of galactic-scale outflow indicate that SN-triggered activities play an important role in CR acceleration in SBs.

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