

# Galactic and Extragalactic SNRs as Sites of Particle Acceleration

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Supernova remnants, owing to their strong shock waves, are likely sources of Galactic cosmic rays. Studies of supernova remnants in X-rays and gamma rays provide us with new insights into acceleration of particles to high energies. I will review the basic physics of supernova remnant shocks and associated particle acceleration and radiation processes. In addition, the study of supernova remnant populations in nearby galaxies and the implication on the Galactic cosmic ray distribution will be discussed.

**Primary author:** Dr SASAKI, Manami (Institute for Astronomy and Astrophysics Tuebingen)

**Presenter:** Dr SASAKI, Manami (Institute for Astronomy and Astrophysics Tuebingen)

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