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## Cosmic Ray acceleration and escape in SNRs

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In recent years, our understanding of cosmic-ray acceleration at supernova shocks has advanced considerably. Observations of nearby SNR show clear evidence for magnetic field amplification, while theory and simulation has developed to the point where we can now investigate the plasma physics in these energetic environments self-consistently. I will review some of the recent developments in the theory of cosmic ray confinement at SNR shocks, and discuss its implications for the origin of PeV cosmic-rays.

**Primary author:** Dr REVILLE, Brian (Queen's University Belfast)

**Presenter:** Dr REVILLE, Brian (Queen's University Belfast)

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