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## Connecting radio waves and gamma-rays in extreme astronomical settings

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Radio and gamma-ray astronomy are intimately connected via fundamental processes associated with relativistic particles. Such particles are accelerated in extreme astrophysics settings, for example, supernova remnant shocks, pulsar environments, collimated beams and jets generated by accretion, and extreme stellar winds from massive stars. In this talk I will briefly review these connections using observational examples, and take a look at how the Square Kilometre Array and the Cherenkov Telescope Array will take the next steps into this exciting new era of extreme astronomy.

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