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Particle acceleration in relativistic sources

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The acceleration of charged particles to high energies in powerful astrophysical sources such as blazars represents a central question in modern multi-messenger astrophysics. Accelerated particles can interact with and radiate in ambient fields to produce secondary photon or neutrino fluxes, or escape from the source to become part of the cosmic ray spectrum. This presentation will discuss the physics of acceleration scenarios from first principles and address some of their consequences for blazar phenomenology.

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