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Particle acceleration observed in gamma-rays

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Gamma-rays give us a view on the acceleration some of the most energetic particles in the universe. These particles are usually thought to be accelerated in (relativistic) shocks. However, with the advances in Particle In Cell simulations over the past years it became clear that magnetic reconnection is also a compelling alternative. In this talk, I will discuss what gamma-ray observations can tell us about these two options. I will discuss this question for different gamma-ray source classes, as Supernova Remnants, Jets of Active Galactic Nuclei and Pulsar Wind Nebulae.

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