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Diffusive shock reacceleration at Supernova remnant shocks

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Diffusive shock acceleration has been successful in describing many aspects of particle acceleration at strong shocks. In the standard description, thermal particles are energized as they cross a shock and complete cycles of Fermi acceleration. Additionally, it has been proposed that non-thermal particles placed upstream of a shock can also be energized. This process, already discussed in Bell 1978, is known as diffusive shock reacceleration, and has recently been shown to be of importance, as for example to account for the non-trivial behavior of the secondary-to-primary Boron-to-Carbon ratio.

In this contribution, we propose to discuss the importance of particle reacceleration at SNR shocks, and on the subsequent gamma-ray emission from reaccelerated particles.

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