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Antimatter cosmic rays: backgrounds or signals?

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Recent PAMELA data seem to indicate an excess in positron cosmic rays around ~10 GeV that may be due to galactic Dark Matter particle annihilation. I will explain how the background of this signal is estimated and focus on the uncertainties that make our task difficult in constraining Dark Matter. I will explain how analysing simultaneously different cosmic ray particles is the only way to have an insight in the nature of Dark Matter.

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