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spectrum of primary cosmic ray electrons

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several recent experience such as PAMELA, FERMI-LAT, AMS02 have given a very accurate measurement of the spectrum of primary cosmic ray electrons and positrons. have reported a clear excess in the flux of positron fraction up to

100 GeV which leads to the emergence of a debate about the existence and the source of this excess: could come from nearby pulsars or dark-matter annihilation ?? Most of the works proposed to explain these features rely on the well-known diffusion equation. in this work we will try to investigate this controversy by clarifying this spectrum using the mont carlo simulation.

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