

The proton and helium anomalies in the light of the Myriad model

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A hardening of the proton and helium fluxes is observed above a few hundreds of GeV/nuc. The actual distribution of the local sources of primary cosmic rays has been suggested as a potential solution to this puzzling behavior. Some authors even claim that a single source is responsible for the proton and helium anomalies. But how probable are such explanations ? To answer that question, I will discuss the Myriad model and the probabilistic nature of the predictions on primary cosmic ray fluxes. I will show that at any given energy, these fluxes are distributed according to a stable law well-known to financial analysts.

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