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Power-law energy spectrum of high energy cosmic rays

We study the spectrum of high energy cosmic rays as an ultra-relativistic multicomponent quasi-ideal plasma. Such a quasi-ideal plasma reflects a power-law behavior reproducing the knee-ankle structure of the high and ultra high energy spectrum. The presence of nonextensive statistical effects are discussed in the light of the recent data and in connection with anomalous sub-diffusive transport of high energy cosmic rays in galactic superbubbles.

Primary author: LAVAGNO, Andrea (TO)

Presenter: LAVAGNO, Andrea (TO)