

WHAT SPECTRUM SHOULD THE GCR ACCELERATION THEORY EXPLAIN?

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The all-particle spectra, measured by three different instruments: 'Proton-1,2,3'; 'Proton-4'; and TIC are discussed. It is shown that all three experiments reveal a 'knee' in the all-particle spectrum at ~ 1 TeV.

Analysis of these experimental data proves, that in the energy range >1 TeV the all-particle spectrum is the sum of two power-law spectra : one with the spectral index of 2.6 and the second with 3.1.