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Spectral breaks observed in CR spectrum solves the puzzle with the knee and beyond

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Rigidity dependent breaks and the hardening of the elemental spectra observed above 200 GeV provided the most important hint on the nature of the cosmic ray knee. Model independent analysis of the CR data (direct and indirect combined) shows at least 3 different populations of particles needed to describe the spectrum and composition from 200 GeV up to 200 EeV.

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