

# Energy spectrum of cosmic rays measured using the Pierre Auger Observatory



## Executive summary

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### What is this contribution about?

We present the **energy spectrum** of cosmic rays **from 6 PeV up to the highest energies**.

It is a combination of **five different measurements** performed at the Pierre Auger Observatory.

### Why is it relevant/interesting?

We report for the first time the **low-energy ankle**.

A **consistent energy scale** has been used for all measurements.

### What has been done?

The low-energy **threshold was decreased** by **Cherenkov-dominated events** reconstructed using the Profile-Constrained Geometry fit.

### What is the result?

**Five breaks in the energy spectrum** are reported together with **six consecutive power-law spectral indices**.

