

Status and Prospect of cosmic rays iron spectrum with energy from 100 TeV to 10 PeV measured by LHAASO

The direct measurements of the proton spectrum show a softening at $E \approx 13$ TeV and a similar softening at $E \approx 34.4$ TeV on helium spectrum. Whether and where a softening on iron spectrum is very important to study the origin of cosmic rays. LHAASO hybrid observation can select the iron showers with 90% purity. The selection efficiency is 40%. It is expect to complete the measurement of iron spectrum next year.

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