

# **Extensive Air Showers High Energy Phenomena And Astrophysical Aspects A Tutorial Reference Manual And Data Book Astrophysics And Space Science Library**

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## **Extensive Air Showers High Energy**

Extensive air showers are a very unique phenomenon. In the more than six decades since their discovery by Auger et al. we have learned a great deal about these extremely energetic events and gained deep insights into high-energy phenomena, particle physics and astrophysics.

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### **Extensive Air Showers - High Energy Phenomena and ...**

Key to understanding extensive air showers is the modeling of hadronic multiparticle production at energies from the particle-production threshold up to 1020eV—far beyond the reach of man-made accelerators. In this article, we introduce the relation between extensive air showers and hadronic interactions at high energy.

### **Extensive Air Showers and Hadronic Interactions at High Energy**

Abstract: The discovery of extensive air showers by Rossi, Schmeiser, Bothe, Kolhörster and Auger at the end of the 1930s, facilitated by the coincidence technique of Bothe and Rossi, led to fundamental contributions in the field of cosmic ray physics and laid the foundation for high-energy particle physics. Soon after World War II a cosmic ray group at MIT in the USA pioneered detailed investigations of air shower phenomena and their experimental skill laid the foundation for many of the ...

### **[1207.4827] Extensive Air Showers and Ultra High-Energy**

...

Extensive air showers are still the only source of information on primary cosmic-rays and their interactions at energies above PeV. However, this information is hidden inside the multiplicative character of the cascading process.

### **Extensive air showers and the physics of high energy ...**

MC studies indicate that the two deeps observed around 90 ° and 270 ° in the azimuth distribution of detected EAS disappear for high energy showers ( $E > 10^{16.8}$  eV), as it is demonstrated in the bottom plot of Fig. 6.

### **Detection of high energy showers by the Astroneu**

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**extensive ...**

**EXTENSIVE AIR SHOWERS AND HIGH ENERGY INTERACTIONS.**

A.D. Erylkin (LPI, Moscow (main)) 1994. 12 pages. Contribution to: International Symposium on Cosmic Ray Physics in Tibet, 74-85; ... **EXTENSIVE AIR SHOWERS ACCOMPANIED BY FAMILIES WITH SIGMA E (gamma, H) => 10-TeV AND COMPARISON WITH THE GENERAL EAS.** Y. Fukushima (Konan U.), C. Hamayasu

## **EXTENSIVE AIR SHOWERS AND HIGH ENERGY INTERACTIONS - INSPIRE**

Extensive air showers (EASs) initiated by ultrahigh energy cosmic rays (CRs) include millions of collisions and decays of secondary particles. These showers can be observed with uorescence detectors, able to count the number of charged particles produced as the shower

## **High energy muons in extensive air showers**

Abstract: (arXiv) The discovery of extensive air showers by Rossi, Schmeiser, Bothe, Kolh"orster and Auger at the end of the 1930s, facilitated by the coincidence technique of Bothe and Rossi, led to fundamental contributions in the field of cosmic ray physics and laid the foundation for high-energy particle physics.

## **Extensive Air Showers and Ultra High-Energy Cosmic Rays: A ...**

Cosmic-ray air showers. Cosmic rays. The earth is hit by elementary particles and atomic nuclei of verylarge energies. Most of them are protons (hydrogen nuclei) and all sorts of nuclei up to uranium (although anything heavier thannickel is very, very rare). Those are usually meant when talkingabout cosmic rays.

## **Cosmic-ray air showers - Startseite**

Extensive air showers are a very unique phenomenon. In the more than six decades since their discovery by Auger et al. we have learned a great deal about these extremely energetic events and gained deep insights into high-energy phenomena, particle physics and astrophysics.

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Tutorial Reference Manual And Data Book  
And Astrophysical Aspects  
CORSIKA - an Air Shower Simulation Program. CORSIKA ( COsmic Ray Simulations for KAscade) is a program for detailed simulation of extensive air showers initiated by high energy cosmic ray particles. Protons, light nuclei up to iron, photons, and many other particles may be treated as primaries. The particles are tracked through the atmosphere until they undergo reactions with the air nuclei or - in the case of instable secondaries - decay.

## **KIT - CORSIKA - Startseite**

CORSIKA is a detailed simulation program for extensive air showers initiated by high energy cosmic particles. The user's guide explains the installation of the code, all the necessary input data sets, the selection of simulation parameters, and the structure of the program outputs. 191 pages, 2 figures pdf file (1117 kB)

## **KIT - CORSIKA - Documentation**

An air shower is an extensive (many kilometres wide) cascade of ionized particles and electromagnetic radiation produced in the atmosphere when a primary cosmic ray (i.e. one of extraterrestrial origin) enters the atmosphere.

## **Air shower (physics) - Wikipedia**

Extensive air showers are a very unique phenomenon. In the more than six decades since their discovery by Auger et al. we have learned a great deal about these extremely energetic events and gained deep insights into high-energy phenomena, particle physics and astrophysics.

## **Extensive air showers : high energy phenomena and ...**

CORSIKA (COsmic Ray Simulations for KAscade) is a physics computer software for simulation of extensive air showers induced by high energy cosmic rays, i.e. protons and atomic nuclei, as well as Gamma rays (photons), electrons, and neutrinos. It may be used up to and beyond the highest energies of 100 E eV.

## **CORSIKA - Wikipedia**

Resumen. We describe the measurement of the depth of

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maximum, X-max, of the longitudinal development of air  
showers induced by cosmic rays. Almost 4000 events above  
10(18) eV obse

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