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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 are a very unique phenomenon. In the more than six decades since their discovery by Auger and collaborators we have learned a lot about these extremely energetic events and gained deep

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discovery of extensive air showers in 1938, however, radically changed this situation with the highest

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energy being pushed up by about 5 orders of magnitude, probably the single largest advance to our knowledge of energy scales ever made. It is now known that the energy spectrum extends to beyond 1020 eV but it has taken over 60

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EXTENSIVE AIR SHOWERS AND HIGH ENERGY INTERACTIONS. A.D. Erlykin (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

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2. OVERVIEW OF EXTENSIVE AIR SHOWERS. When a hadronic high-energy particle enters the Earth's atmosphere, it interacts with a nucleus from the air (mainly nitrogen, oxygen, and argon) at a typical height of 15 to 35 km and produces a shower of secondary particles. The most frequently produced secondary hadrons are charged and neutral pions.

Extensive Air Showers and Hadronic Interactions at High Energy

MC studies indicate that the two deeps observed around  $90^\circ$  and  $270^\circ$  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

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of Fig. 6.  
Detection of high energy showers by the Astroneu  
extensive ...

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

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Modelling uncertainty of the radiation energy emitted by ...

Key to understanding extensive air showers is the modeling of hadronic multiparticle production at energies from the particle-production threshold up to 10<sup>20</sup> eV—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

Extensive air showers are a very unique phenomenon.

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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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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.

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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

CORSIKA – an Air Shower Simulation Program.

CORSIKA ( CO smic R ay SI mulations for KAScade) is a program for detailed simulation of extensive air

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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 - CORSIKA

CORSIKA 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.

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CORSIKA: a Monte Carlo code to simulate extensive air showers.

These particles produce more gamma rays, and the cycle repeats in a chain reaction known as an extensive air shower. "In the air shower, you have one particle turning into something like 100 million lower energy particles moving in a pancake shape at the speed of light," BenZvi says.

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Physics and astrophysics of ultra-high-energy cosmic rays / M. Lemoine, G. Sigl, eds. QC 484.8 I58 2000  
Proceedings of the International Workshop on  
Extremely High Energy Cosmic Rays : experiments,  
theories and future direction, March 22-23, 2001 ICRR



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