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energy ...

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where Extensive

air shower is

discussed:

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high-energy

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cosmic rays: ...be

Energy

detected only

through the And

extensive air

showers (EASs)

that they

produce in the

atmosphere. An

EAS may consist

of billions of

secondaries

including

photons,

electrons,

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muons, and some

neutrons that

arrive at ground

level over areas

of many square

kilometres. Very

high-energy

primaries arrive

...

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showers are And

still the only

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information on

primary cosmic-

rays and their

interactions at

energies above

PeV. However, Peter K

this information

is hidden inside

the

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EAS Lorenzo
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Showers High

Introduction

Above 1015 eV,

cosmic rays (CR)

are detected by

means of

Extensive Air

Showers (EAS).

EAS encode

information

about the

primary CR,

(energy, mass

number, and

arrival

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simulations have

been carried out

with CORSIKA

version 5.62 to

investigate the

general

properties of

giant cosmic air

shower in the

energy range

1–100 EeV. The

comparison

between protons,

heavy nuclei and

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? initiated

Energy

showers exhibits

unexpected and

interesting

features.

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rays: a . . .

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An air shower is

12

an extensive

(many kilometres

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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.

When a particle,

which could be a

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proton, a

nucleus, an

electron, a

photon, or

(rarely) a

positron,

strikes an

atom's nucleus

in the air it

produces many

energetic Peter K

hadrons. 2011 04

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Energy Phenomena

and ...

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showers are a

very unique

phenomenon. In

the more than

six decades

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have learned a

great deal about

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i.e. protons and
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atomic nuclei,
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as well as Gamma
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extensive air

showers is the

modeling of

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multiparticle
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production at
energies from
the particle-
production
threshold up to
10²⁰ eV—far
beyond the reach
of man-made
accelerators. In
this article, we
introduce the
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