

Acronyms

This is a list of alphabetically sorted acronyms used throughout this work.

Contents

Todo list

remove todos

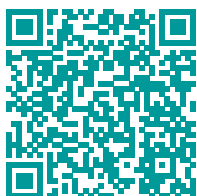
add pdf hyperref keywords



Chapter 1: Introduction

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Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.



Chapter 2: Cosmic rays and extensive air showers

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[Roulet2015]

2.1 Acceleration Mechanisms

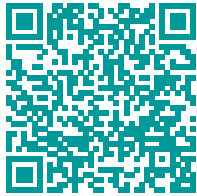
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2.2 Cosmic Ray Propagation

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2.3 Extensive Air Showers

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Chapter 3: The Pierre Auger Observatory

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The **PAO!** (**PAO!**) is the (by area) largest scientific experiment in the world. It consists of an array of 1660 **WCD!**s (**WCD!**s), which form the **SD!** (**SD!**), and 27 fluorescence telescopes, that make up the **FD!** (**FD!**).

With a region spanning roughly 3000 km² in the Argentinian pampa at a median elevation of 1400 m, it offers a unique possibility to observe **UHECR!**s (**UHECR!**s) at the tail-end of the **CR!** (**CR!**) energy spectrum.

We begin this chapter in ?? by stating the design intentions and formulating open questions that the **PAO!** aims to answer. Design details for **FD!** and **SD!** are given in ?? and ?? respectively. Following a discussion on the **DAQ!** (**DAQ!**) process and event detection in ??, we finish by detailing the event reconstruction and higher level analysis in ??.

3.1 Science Goal and Open Questions

3.1.1 Mass Composition

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3.1.2 Muon Deficit

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3.1.3 AugerPrime

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3.2 The Fluorescence Detector

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3.3 The Surface Detector

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3.4 Central Data Acquisition System

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3.5 Offline and Event Reconstruction

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Chapter A: Hallo

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