GLOBALCOSMICS

Common Website for Cosmic Ray Education Projects Worldwide

Carolin Schwerdt Marge Bardeen 14th IPPOG Meeting at CERN, 3. November 2017

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Scientific Coordination of Cosmic-Education-Project at DESY in Zeuthen and inside the German-wide Network "Netzwerk Teilchenwelt"

CosmicLab:

internship for interested high-school students of 2 weeks; support of teachers



network between scientists, students and teachers; 29 institutes at 25 cities

Experiments, Tools and Programs:

<u>Cloud Chamber</u>, <u>CosMO</u> (scintillation counters), <u>Kamiokannen</u> (cherenkov counters); <u>Auger</u> and <u>IceCube</u> Masterclass; Web base <u>Cosmic@Web</u>





Aim

Build a Website:

- that gives an overview of all cosmic-ray education projects worldwide,
- links all of them and
- lists events in which high-school students can participate.

First try:

https://icd.desy.de/e49245/

Become an independent website.

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International Cosmic Day INTERNATIO COSMIC DA		
HOME PHYSICS PROGRAM PARTIC	CIPATE MAP PROJECTS PROCEEDINGS MEDIA	
FAQ Find us on 📑		
Global Cosmic Ray Studies		
Projects for High School Students		
There are several projects around the world that ac teachers, to give them the opportunity to explore co are presented below. For further information, pleas	osmic particles. These projects	
FINLAND		
CALLIO LAS interested in. The Cer Engineer for the form rel 130 Finland, has made it j cosmic ray experiment EMMA and particle physics. detectors. The workshops and theme days are well	smic ray physics underground is something the young students are really intre for Underground Physics in Pyhäsalmi (CUPP) of Callio Lab, in possible. The outreach program, established in 2010, is based on the s. The emphasis is on the hands-on exercises with simple data and Il liked. The outreach is also taken out into the community by participating ic lectures, and organizing theme weeks on physics topics together with ab	

Audience

Projects

Instructors

Audience

Projects will have a common node where they can:

- present themselves.
- help build a network.
- find contacts to other projects.
- join forces and apply for events together.

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Instructors who act as mediators between science and school:

- have access to lessons and activities for their students.
- find information for themselves to inspire and for professional development of their teaching about current research.
- contacts to projects, some may even be near by.

Audience

In addition, these groups can be addressed.

Students will find:

- information about astroparticle physics.
- contacts to a project of a local institute and projects worldwide.
- overview of opportunities for them.

Scientists will find:

- inspiration and ideas about how to incorporate cosmic ray studies with their own outreach activities
- contact information

Contents of the website

Introduction

• which gives a rough overview of astroparticle physics and what the key topics are.

All Cosmic Ray education projects

• introduce themselves.

Maybe a world map,

• which highlights cities or countries.

Description of global activities for young people, e.g.:

- International muon week
- International Cosmic Day
- https://spexperiment.icecube.wisc.edu/
- https://masterclass.icecube.wisc.edu/
- http://www.cazadoresderayosgamma.com/
- https://www.zooniverse.org/projects/zooniverse/muon-hunter

Contents of the website

Contact

Carolin Schwerdt, Marge Bardeen and ??? responsible for maintenance of the website.

Every institute is responsible for its own content.

Next Steps

- Requirements for the design of the website have to be discussed
- Financing has to be clarified (preparation of the website)