



Contribution ID: 597

Type: **Poster contribution**

## High energy astroparticle physics for high school students

*Saturday, August 1, 2015 3:30 PM (1 hour)*

The questions about the origin and type of cosmic particles are not only fascinating for scientists in astrophysics, but also for young enthusiastic high school students. To make them familiar with research in astroparticle physics, the Pierre Auger Collaboration agreed to make 1% of its data public available. The Pierre Auger Observatory investigates the cosmic rays at the highest energies and consists of more than 1600 water Cherenkov detectors, located near Malargüe, Argentina. With the available public data, students can perform their own hands-on analysis of data from this experiment. In the framework of an Auger Masterclass organised within the context of the German outreach network "Netzwerk Teilchenwelt" they do get an insight into cosmic ray physics and scientific research concepts. We present the project and experiences with students.

### Collaboration

– not specified –

### Registration number following "ICRC2015-I"

490

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