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## **Involving high school teams in the upgrade phase of the Extreme Energy Event project: a review of recent activities**

*Thursday 31 August 2023 14:00 (15 minutes)*

The Extreme Energy Events (EEE) project was born to include scientific, outreach and educational purposes. It is designed to detect and study high energy cosmic rays through the detection of the shower's muon component through several muon telescopes based on Multigap Resistive Plate Chambers (MRPC) synchronized by GPS. The telescopes are organized in local clusters and single telescope stations distributed all over the Italian territory and installed in high schools buildings.

These unconventional working sites offer young students the opportunity to get in touch with the world of high energy physics research. Every year hundreds of students and teachers are involved in the activities directly correlated to EEE.

The EEE Collaboration planned an intense plan of on-line activities: monthly collaboration meetings, masterclasses and seminars. With enormous success and participation, even activities focusing on the upgrade phase of the EEE project have been recently carried out in the last two years. The idea is to continue and to increase the activities in presence to stimulate the students and to provide opportunities for engaging students in learning physics and carrying data analysis sessions.

This contribution will present a general overview of the EEE outreach activities and the future plan.

### **Submitted on behalf of a Collaboration?**

Yes

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