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Status Report of μ Net (mnet) Project.

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The μ Net project aims to deploy and operate an extensive school network of educational Cosmic Ray telescopes throughout the Peloponnese region. As part of the Net project, an extended educational program was conducted, with educational activities focusing on the design, construction, testing, and operation of Cosmic detectors (microCosmics), as well as the remote operation of cosmic ray detection stations and astroparticle physics detectors deployed at the Hellenic Open University (HOU) campus. The school year 2022-2023 was the first year of operation of Net, in which 55 schools from all over the country participated with 500 students and 75 teachers. Schools were responsible for maintaining the cosmic ray detector assigned to them. 20 of the schools installed the detectors on their physical premises, while the rest operated detectors located at the Hellenic Open University through remote access. The 20 schools that had the detectors on site were located in the Peloponnese region, and the students and teachers of these schools carried out the construction of the detector unit of the telescope, while the remaining 35 of the 55 schools watched the construction on video. All schools calibrated their telescopes, measured extensive atmospheric showers caused by cosmic particles as they entered the atmosphere, and processed the data they collected online through a website built by the university's physics lab. Students and teachers in the program were trained on how to construct the detectors, calibrate the telescope, and operate them to measure extensive atmospheric showers from cosmic particles. All schools were trained using distance learning methods. The experimental devices, the educational activities, and the developed software tools are briefly covered in this report, along with the main findings and outcomes of the first year of operation of the network.

Is this abstract from experiment?

No

Name of experiment and experimental site

N/A

Is the speaker for that presentation defined?

Yes

Details

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Internet talk

Yes

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