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Classroom Cosmic Rays: Detectors and Analysis

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Since 1998, QuarkNet has provided over 500 cosmic ray muon detectors to teachers in the project and collaborators on similar projects. The detector relies on GPS accuracy for time-stamping PMT pulses from four scintillation counters. The DAQ is now in its third revision. Students and teachers use the detector to carry out small experiments to measure properties of cosmic ray muons. Other groups, most international, have purchased the detector for similar uses. We will describe the detector, its installation base and our web-based data-sharing and analysis portal.

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