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Exploring Cosmic Rays with a High School Student Global Detector

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The QuarkNet program has distributed over five hundred cosmic ray detectors for use in high schools and research facilities throughout the world over the last decade. Students collect data, share it with all QuarkNet users, and perform analyses using web-based tools. Since muons fall on everyone in the world, all students can experience this high energy particle environment. Taking steps toward a world-wide collaboration, QuarkNet sponsors International Muon Week and participates in International Cosmic Day, where users collect similar data together. This summer, many North American groups plan to construct telescopes to measure cosmic ray activity during the solar eclipse. Along with IPPOG cosmic ray outreach efforts, we are building a global collaboration.

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