This year, we had two students (Sophomore Markie and Junior PJ) working on the Eclipse Cosmic Ray Telescope project. During the fall of 2016 and spring of 2017, these students researched, planned, and prepared to build two of the CRMD Telescopes. Then, for several weeks during the summer, they met with Zach Beam (another QuarkNet Nerd) to assemble and test the two telescopes using detectors 6446 and 6705. 6680 has a persnickety cookie on one of the detectors, so that stayed home in a stacked configuration to provide data during the eclipse. They even worked with a team of other students on logistic support for the project (travel to the path of totality, food, camping, and even building a mobile power supply in case we had no access to “the grid”).

After the August 21 event, These two students have continued to amass research (all the while annoying QuarkNet mentors with lots of phone calls….we’d like to apologize to Mark for taking up all his time) into a scary appendix for their science fair project. Since they assembled baseline data for the event and have months of other data to compare, they feel they have one of the most complete sets of data on cosmic ray data from the eclipse. After science fair, Markie (who did a project last year on the relationships between solar activity and cosmic ray flux data), has expressed interested in possibly publishing her results.

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