

Muon Flux vs. Angle of Detectors

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The purpose of this experiment is to confirm the assumption that the muon flux varies with angles. First, we built a rack to align the detectors; the rack can vary the angle of which the detectors are facing from zero to 90 degrees. We then conducted flux studies, which are recorded at 2-12 hour intervals. We found that when the detectors are perpendicular with the table (at zero degree angle), the flux is ~7000 counts/ 10 minutes. When the detectors lay flat on the table (at 90 degrees), the flux is ~8000 counts/ 10 minutes. The difference is small because the detectors are close to each other; this means solid angle that the muons come into contact with the detectors is large. A future test with more separation between the detectors will produce more noticeable effects, as the solid angle will decrease with more distance between detectors.

comment: overall a very good description. You might want to connect your sentences a bit more to make it sound more continuous.