## The Effect of Lead Shielding on the Count Rate and Energy Levels of Muons Andrew Klein, Fr. Michael Antonacci, Dr. Vanden Berk Saint Vincent College Department of Physics

- A mass of over 100 times an electron
- light.

produce the clearest and most dramatic effects.

the presence and energy levels of a muon? The process used for this research is actually very similar in concept to a Geiger counter, but with some differences in the hardware.

Pictured to the right are two completed muon detectors. These detectors were constructed using MIT's CosmicWatch<sup>[1, 2]</sup> design, and detect particles through the following process:





