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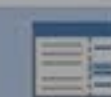
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Procedure:

To begin this experiment, we first had to calibrate the Geiger counter. We did this by adjusting the voltage and taking measurements in 20V steps until the count rate raised to a maximum. We then measured the HV value on the Geiger counter by setting the HV to 1000V and measuring the count rate. We did this by removing all radioactive samples and shielding them with lead and measuring the count detected by the Geiger counter in 15 seconds. The equipment was set up in the following fashion:

After this, we began to measure the range of the β particles. To do this, we placed a Thallium-204 source under the Geiger tube to measure the range of the particles as shown below:

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After this, we replaced the Thallium source with a Cesium-137 sample and repeated the process to measure the absorption of γ rays. For this, we used lead absorbers instead of aluminum ones.

Comments

New Comment

Nelson Siu

Or was this 20 seconds? Could someone please make sure this was correct?

Andru Roysden

Just checked: It was 15 seconds.

Nelson Siu

4/8/2014 - 4:37 PM

Reminder for me to work on the section on experimental error later on in the report.

