## Cosmic Ray Detector Lab 2 – Detector Coincidence

Name	Period Date
Objective:	Observe changes in the muon count as the number of the detector paddles change
Equipment:	FermiLab Cosmic Ray Detector with four paddles
	Computer with Hyper Terminal software or equivalent
	Purdue Cosmic Ray Detector Program (for Hyper Terminal)
	Auto-ranging Voltmeter
Procedure:	Set the angle of the paddles at 45 degrees. Set all the potentiometers on the Power Distribution Box at the plateau values from Lab 1. Plug in and power up the Cosmic Ray Detector.
	Set up the Purdue Cosmic Ray Detector Program so that:
	Test Time is 10 minutes.
	All boxes of the detector paddles are filled with a check mark.
	Coincidence Level is 1.
	Click the green "Go" button on the program.
	Record your count in the data table.
	Repeat the procedure for Coincidence Levels of 2, 3, and 4.

Coincidence	1	2	3	4
Count				