

Johnny A. Rojas & Aiden Sitorus, George Nicacio, Jeremiah Hasibuan,

Matthew Miller

LAB REPORT: ELECTRIC FIELD AND EQUIPOTENTIALS

1 Theory

In Physics, vector fields are a common tool borrowed from mathematics that can be used to visualize the effects of many simultaneous points in relation to an equation (That is an equation that defines the magnitude of the vector components i and j). This lab report, takes advantage of this mathematical framework to study the effects of Coulomb's Law which can be written as:

$$F_E = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r^2}$$

where

- F_E is the Electrical Force Produced in N
- $\frac{1}{4\pi\epsilon_0}$ is the Coulomb Constant

2 Conclusion

3 Questions

4 Above and Beyond