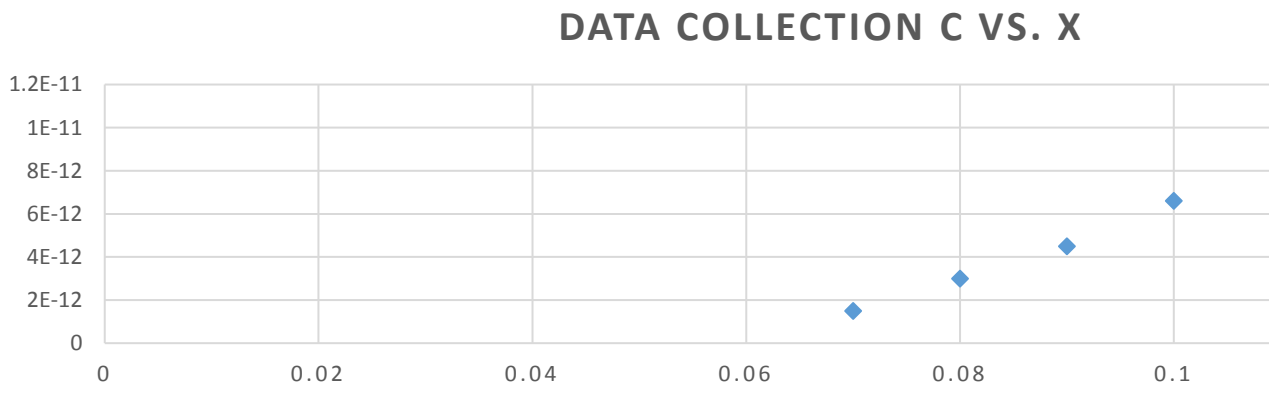
| DATA | Distance (meters) x | Capacitance (picoFarads) y |
|---|---|---|
| | 0.07 | 1.5E-12 |
| | 0.08 | 3E-12 |
| | 0.09 | 4.5E-12 |
| | 0.1 | 6.6E-12 |
| | 0.11 | 8.7E-12 |
| | 0.12 | 1.03E-11 |

| | | |
|---|---|---|
| **Measured Electric Permitivity ->** | **8.99333E-12** | Percent Difference = |
| **Theoretical Constant ->** | **8.85419E-12** | t = |
| LINEST OUTPUT | | |
| Slope -> | -1.89673E-10 | 2.79955E-09 |
| Uncertainty -> | 2.01387E-11 | 2.23027E-10 |
| R^2 -> | 0.956852562 | 1.00163E-10 |
| Fisher -> | 88.70538797 | 4 |
| | 8.89941E-19 | 4.01302E-20 |



| x = 1/Distance | y = C/Area |
|---|---|
| 14.28571429 | 1.911E-10 |
| 12.5 | 3.822E-10 |
| 11.11111111 | 5.732E-10 |
| 10 | 8.408E-10 |
| 9.090909091 | 1.108E-09 |
| 8.333333333 | 1.312E-09 |

0.02 %

0.006909124

<- y intercept
<- uncert of y-int
<- Variance