Lab 4 Electric Field Plotting

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Table 1: Measure the distance along the center electric field line

Between	0–0.75	0.75–1.50	1.50–2.25	2.25–3.00	3.00–3.75	3.75–4.50	4.50–5.25	5.25–6.00
cm								

Table 2: Calculate the magnitude of average electric field along the center line field with equation 3.6

Between	0–0.75	0.75–1.50	1.50–2.25	2.25–3.00	3.00–3.75	3.75–4.50	4.50–5.25	5.25–6.00
cm								

- Is the electric field constant along this?
- If not, where is the magnitude off the average electric field the greatest?

Table 3: Measure the distance along the outermost electric field line

Between	0–0.75	0.75–1.50	1.50–2.25	2.25–3.00	3.00–3.75	3.75–4.50	4.50–5.25	5.25–6.00
cm								

Table 4: Calculate the magnitude of average electric field along the outmost field line

Between	0–0.75	0.75–1.50	1.50–2.25	2.25–3.00	3.00–3.75	3.75–4.50	4.50–5.25	5.25–6.00
cm								

- Is the electric field constant along this?
- If not, where is the magnitude off the average electric field the greatest?