

Experimental Clarification of Coulomb-Field Propagation

Experimental setup

Measurement 1
Measurement 2
Measurement 3
Measurement 4
Measurement 5

Further signal-development (50 ns/div)
Further signal-development (500 ns/div)

Report of the experiment: coulomb_experiment.html

Spreadsheed evaluation of the data presented here: coulomb_experiment.xls (config_e)

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Experimental setup:

Main experiment (dealing with green and red signals of screen-shots from main oscilloscope):

\[ \Delta x = 1.65 \text{ m (where } x_{\text{left}} = 6.35 \text{ m and } x_{\text{right}} = 8 \text{ m) } \rightarrow \Delta t = \Delta x/c = 5.5 \text{ ns} \]

Control experiment (dealing with yellow signals of screenshots from both oscilloscopes, synchronized by blue signals):

\[ \Delta x = 6 \text{ m (where } \text{dist} = 0.75 \text{ m and } x = 6.75 \text{ m) } \rightarrow \Delta t = \Delta x/c = 20 \text{ ns} \]
Config_e, measurement 1:
Config_e, measurement 2:

End of config_e, measurement 2
Config_e, measurement 3:

End of config_e, measurement 3
Config_e, measurement 4:

End of config_e, measurement 4
Config_e, measurement 5:

End of config_e, measurement 5
Config_e, further signal-development (50 ns/div):

End of config_e, further signal-development (50 ns/div)
Config_e, further signal-development (500 ns/div):

End of config_e, further signal-development (500 ns/div)