

Name: _____ Date of Lab: _____

Partner: _____

This worksheet will not be submitted directly. Instead, the Excel notebook that you submit to CANVAS should have a second tab summarizing this worksheet.

Quantity	Unit	Value \pm Uncertainty
Accelerating Voltage		
# of turns of wire in Helmholtz Coil	--	160
Radius of Helmholtz Coil	m	0.140
Diameter of Electron Tube	m	0.160
Slope of $1/r$ vs. I graph		\pm
Experimental Charge-to-mass ratio	C/kg	\pm
Accepted value for Charge-to-mass ratio	C/kg	

Does your measured e/m agree with the accepted e/m ? Comment.

What role (if any) would the earth's magnetic field play in this experiment?