

This is Your Title

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## Abstract

Here you say what you did and what you got in 100 words or slightly less. Blah, blah, blah. The answer you got was  $k = (9.02 \pm 0.05) \times 10^9 Nm^2/C^2$ .

## 1 Introduction

Brief historical perspective, motivation for the experiment, significance of the results. J.J. Tompson [1] did it first.

Develop the theory of your experiment, eventually connecting to the specifics of your experiment. Usually start with basic physics. For example,

$$K = \frac{1}{2}mv^2 \quad (1)$$

Where  $K$  is kinetic energy in joules,  $m$  is the mass in kg, and  $v$  is the velocity in m/s.

## 2 Experimental Apparatus and Procedure

You describe the apparatus and procedure. Connect the theory to your specific equipment. Probably show a figure illustrating it all. Reference any special instruments [2] or equipment. Make a figure using the X11 program `xfig` and export it as eps. Drop the eps file on top of the iTeXMac icon. You can refer to it using the `\ref{fig:sample}` command. For example, see Fig. 1 for a sample figure. Using labels lets you avoid the hassle of renumbering things if you edit the number or order of equations, figures, tables, etc.

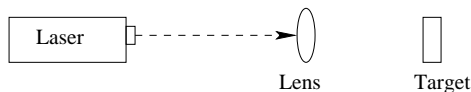


Figure 1: Descriptive figure caption

Put the figure in line with the text immediately after it is mentioned in the text.

### 3 Results

What did you get? Generally do not give extensive tables of data. What is the answer and its uncertainty? How do your results compare with expected results or the results of others? Here I cite an equation I used to get some results. Using Eq. 1 we solved for kinetic energy.

Trial #	x (m)	t(s)	energy (J)
1	2.53	0.11	1.15
2	2.14	0.09	1.03
3	2.27	0.113	1.18
average			1.12

### 4 Acknowledgements

Thank people who were helpful, but not enough to merit co-authorship. Acknowledge funding sources.

### References

- [1] J. J. Thomson, "Cathode Rays," *Philosophical Magazine*(5), 44, (1897), p. 293 (1897).
- [2] Instruments R Us, Inc., Kalamazoo, MI. Flux capacitor model C3GeV <http://www.instrumentsRus.com/>