

# title

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This document provides a template for your report. It is based on the two-column revtex documentclass.

## I. INTRODUCTION WITH CITATIONS

Here is how you can insert an article citation [1] and a book citation [2]. You can also combine them [1, 2].

## II. SOME TYPESETTING

### A. Figures

You may include figures and refer to them from the text. Here we have two figures, Fig. 1 and Fig. 2.  $\LaTeX$  will place floating environments such as the figures according to its own rules. Therefore, to avoid ambiguity, you need to refer to them by their label.

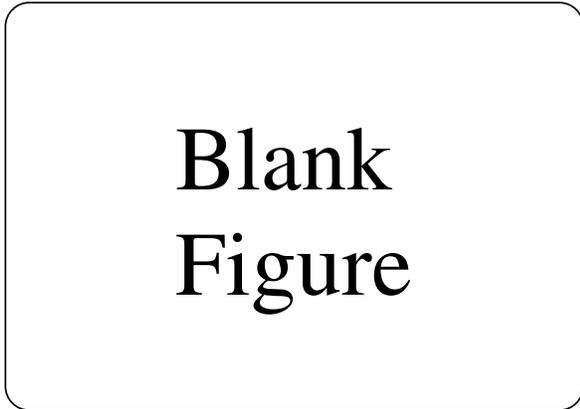


FIG. 1: A blank figure

### B. Equations

$$2 + 2 = 4 \quad (1)$$

$$\operatorname{erf}(z) = \frac{2}{\sqrt{\pi}} \int_0^z e^{-t^2} dt$$
$$\operatorname{erf}(z) = \frac{2}{\sqrt{\pi}} \sum_{k=1}^{\infty} \frac{(-1)^k z^{2k+1}}{k!(2k+1)}$$

$$F(v) = V_0 - \sqrt{F_1(v)^2 + a^2} \quad \text{with}$$
$$F_1(v) = \begin{cases} A_l (v - v^*) & \text{if } v \leq v^*, \\ A_r (v - v^*) & \text{if } v > v^*. \end{cases} \quad (2)$$

$$\frac{d}{ds} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} -1 & 1 \\ -r & 0 \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} - \gamma \mathbb{1} \left( f[x(s - \hat{\tau})] \right) \quad (3)$$

You refer to these equations by their label, e.g. Eq. (1), Eq. (3), and Eq. (2).

### C. Tables

TABLE I: Experimental data. Description goes here

$R$ (k $\Omega$ )	$I_c$ (mA)	$V_c$ (V)	$I_b$ (mA)	$\beta$
0	11.67	0.04	0.94	12.4
47	11.54	0.17	0.09	130
100	8.33	3.3	0.04	189
470	1.90	9.78	0.01	196
1000	0.9	10.75	0.005	196

You refer to the table by its label, e.g. Table I.

## Appendix

The appendix is for content that would detract from the main arguments in the paper but is important for completeness, e.g. lengthy details of your error analysis could go here.

# Long Blank Figure

FIG. 2: A blank figure better viewed spanning two columns

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- [1] A. Einstein “Zur Elektrodynamik bewegter Körper,” *Annalen der Physik* **17**, 891 (1905). *physicists*, (Harcourt/Academic Press, San Diego, 2001).
- [2] G. B. Arfken and H. J. Weber, *Mathematical methods for*