# (Catchy, but informative title)

 $\begin{array}{ccc} \text{Team} & \# & 12345 \\ \text{(Dated: December 10, 2015)} \end{array}$ 

This is the most important section of the paper. Make it beautiful.

Team # 12345 page 2 of 4

## I. INTRODUCTION

#### II. BACKGROUND

Either in the introduction or in the background section should be your first figure where you bring the problem to life. Nobody wants to read three pages about leaves. Just show a picture of a leaf, be sure to talk about anything you plot, and say Fig. shows a cross-section of pro vascular strands of tertiary and quaternary veins in a developing leaf, and you make the reader's day.

# III. ASSUMPTIONS

- An assumption
- 1. A numbered assumption

The paper is organized as follows. The equations of motion are presented and written in terms of a helical coordinate system in §IV. The numerical method used to study the dynamics of an arbitrary (e.g. large amplitude) body shape is described in §V, which provides a basis for comparison for the asymptotic results. In §VI, the predictions of the mathematical model are compared to the results of our numerical method, where we find that things are great. Sometimes. An improved model is described in §VII. We conclude with a discussion in §VIII, where we discuss strengths and weaknesses of the model, and suggest future directions and stuff.

## IV. THE MATHEMATICAL MODEL

Describe the model

## V. NUMERICAL METHOD

Describe exactly what you're going to compute, and how.

## VI. RESULTS AND ANALYSIS

Results will come in the form of graphs and discussion, and sometimes tables. Table VI shows a nice template. Again, reference the label, not the number.

#### VII. SOMETHING MORE

A new and improved model? Measuring the robustness of the model? Something?

Team # 12345 page 3 of 4

$\overline{M}$	U	L	$N_A/N_W$	U	L	$N_W$	U	L
16	0.081733	19.60312	12	0.078402	19.59587	6	0.082795	19.59965
32	0.081090	19.57638	24	0.081149	19.61341	12	0.084734	19.58195
64	0.081018	19.57598	48	0.080930	19.60641	24	0.085422	19.57128
128	0.081019	19.57599	96	0.080938	19.60708	48	0.085432	19.56992

TABLE I. Three convergence studies: (1) varying M, with  $N_W = 5$  and  $N_A/N_W = 16$  fixed; (2) varying  $N_A$ , with  $N_W = 5$  and M = 16 fixed; (3) varying  $N_W$ , with  $N_A/N_W = 16$  and M = 16 fixed.

## VIII. DISCUSSION

Summarize the above. Put a bow around your wonderful story. You should have had a beginning and middle, and here is the end.

# A. Strengths of the model

Maybe some bullet points.

# B. Weaknesses of the model

# C. Future directions

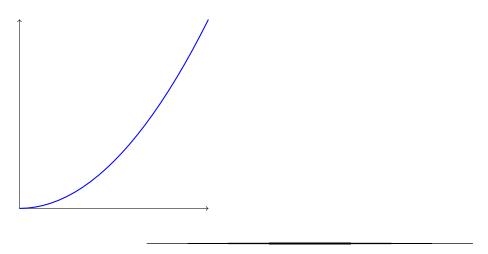
And conclude with a final summary.

# Appendix A: Details for the derivation of $\mathcal{F}(x;\phi)$

A slightly messy calculation that was still small enough to include, but long enough not to want to include up top.

Team # 12345 page 4 of 4

Appendix B: TikZ samples



 $[1]\,$  Nelson, Timothy, and Dengler, Nancy. "Leaf vascular pattern formation." The Plant Cell 9.7 (1997): 1121.