

# Succinct, snappy, but not too cute paper title ...or a boring title

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This is a brief abstract of a couple-hundred words or less that describes what we did, why we did what we did, how we did it, and what the results were. Here we spell-out all acronyms. Of course, see the PRC style guide, PRC papers, the grading rubric, and the syllabus to get a better idea of how a PRC paper should look.

## I. INTRODUCTION

Here in a few paragraphs or maybe a page we lay-out the problem that we're seeking to address, some history behind the problem [1], and a concise description of the measurement we did and/or device we developed. There's no formula for this section, or any of the other sections for that matter. The best strategy is to look at other papers on a similar topic for inspiration. Note that section names need not be "Introduction", "Methods", "Results", "Discussion", "Conclusion". That's actually pretty boring and I try to avoid it when possible.

Typically the introduction concludes with a paragraph laying out what the paper will discuss in the subsequent sections. For example:

We discuss the totally ingenious experimental set-up in Section II, our glorious measurements in Section III, and present our mind-blowing results in Section IV. We discuss our results in Section V and conclude with closing remarks in Section VI.

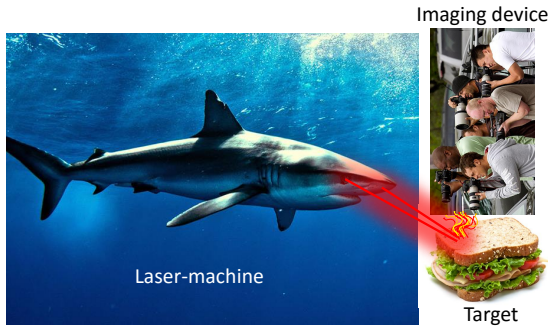


FIG. 1. (color online.) Totally real photograph of our set-up that really exists.

## II. EXPERIMENTAL SET-UP

Describe the set-up, such as the real-life one in Figure 1. This paper style should thoroughly describe the

experiment, but doesn't need to get down into the nitty-gritty. For example, we don't need to know what ADC model you used, and an electronics diagram might be a bit gratuitous. For major items, e.g. the silicon detector, you should still quote the model number and refer to the manufacturer [2].

## III. MEASUREMENTS OF THE THING

Describe the measurement technique. This is a nuclear physics paper for nuclear physicists, so the measurement description should be very thorough. Methodology is often the meat of PRC papers. How long did you measure the thing? How did you measure the thing? Why did you use that approach? Show spectra.

## IV. RESULTS

Present your measurement results. How long did the thing do the thing? What energy was the thing? Here tables and/or figures are nice to include.

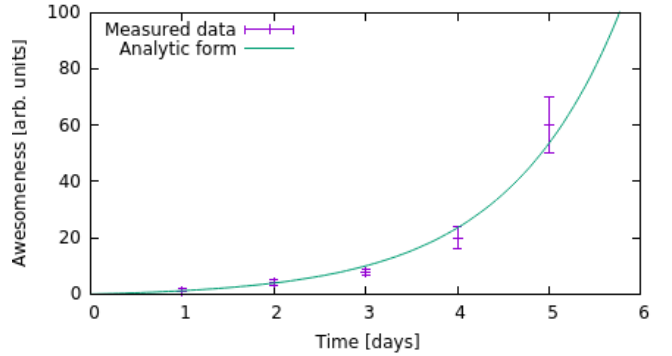


FIG. 2. (color online.) Measurements (purple points) compared to expected awesomeness (solid cyan line).

## V. COMPARISON OF THE THING TO THEORY

Discuss your results. Compare to calculations. Note implications. Maybe compare to an analytic relation, like

$$A(t) = a + b * e^{ct}, \quad (1)$$

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where  $A(t)$  is the awesomeness at time  $t$ ,  $a$  is the awesomeness at  $t = 0$ , and  $b$  and  $c$  are constants fit to our awesomeness relation in Figure 2.

## VI. CONCLUSIONS

Wrap-it all up. This is very much like a hybrid of the abstract and introduction.

## ACKNOWLEDGMENTS

We thank Boaty McBoatface for assistance and useful discussions.

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- [1] J. Cena *et al.*, Nucl. Instrum. Meth. Phys. Res. Sect. A **10**, 203 (2009).
  - [2] (2016), company name and/or url.