

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

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Abstract

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 NIM style guide, NIM papers, the grading rubric, and the syllabus to get a better idea of how a NIM paper should look.

Keywords:

relevant keywords; colon-separated; up to six; PACS numbers below

PACS: 29.25.Pj, 51.30.+i

1. 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 2, our glorious measurements in Section 3, and present our mind-blowing results in Section 4. We discuss our results in Section 5 and conclude with closing remarks in Section 6.

2. Experimental Set-up

Describe the set-up, such as the real-life one in Figure 1. This is a technical paper, so be technical. For example, describe or picture the set-up geometry. It's not uncommon to include an electronics diagram and to mention electronics modules model numbers. Note the manufacturer [2] of the source and other materials that were used. What voltages did you use for detectors? etc.

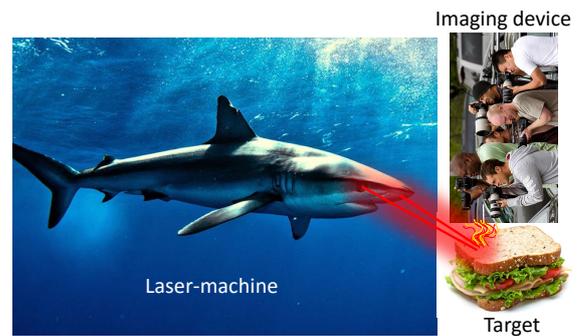


Figure 1: (color online.) Totally real photograph of our set-up that really exists.

3. Measurements of the Thing

Describe the measurement technique. This is a technical paper, so be technical. How long did you measure the thing? Show spectra.

4. 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.

5. 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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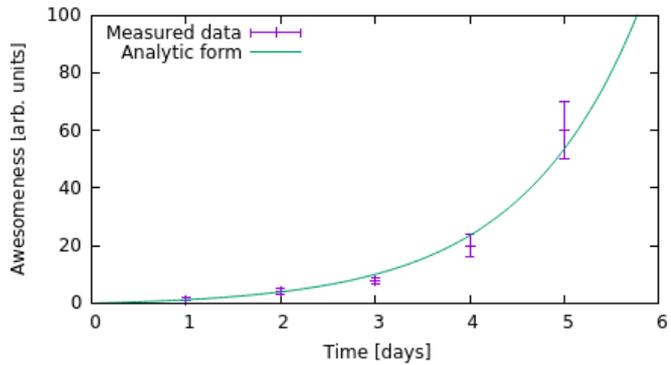


Figure 2: (color online.) Measurements (purple points) compared to expected awesomeness (solid cyan line).

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.

6. Conclusions

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

7. Acknowledgements

We thank Boaty McBoatface for assistance and useful discussions.

References

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