

A fundamental revolution in quantum chemistry: final explanation for hitherto unexplained measurements of property X and predictions of property Y

Author A*, Author B[†], Author C [‡]

October 10, 2014

Abstract

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INTRODUCTION

This section must answer the following three questions in detail (supported by appropriate citations):

1. Why is this study important?
2. What is the history of prior attempts (theoretical and experimental) to solve / study this problem?
3. How does this study advance the body of knowledge?

METHODOLOGY

You must clearly define the precise approach used in this study. If you are developing a new method, please make that explicit.

RESULTS

First-order heading

Second-order heading

Third-order heading

Fourth-order heading

DISCUSSION

This section must offer a detailed analysis of the results obtained. This analysis must be logically consistent and scientifically defensible.

Unless your study is devoted purely towards development of new theoretical / numerical methods, you must either:

- cite existing experimental data that supports your conclusions, or;
- clearly suggest possible experiments that can be carried out to test your findings.

CONCLUSIONS

This section must revisit the three questions you answered in the Introduction and discuss the significance of the results described above. Please also clearly delineate any open problems / logical questions not answered by this study, with a reasonable (not wild) speculation about how those open problems might be tackled.

After your paper is read, the reader must have a precise idea of the significance, purpose, context and scientific validity of your study.

You must proofread your paper thoroughly to ensure that it meets or exceeds acceptable standards of international scientific communication in English.

ACKNOWLEDGMENTS

This section must acknowledge all sources of funding / other support, any discussions with colleagues / students who are not co-authors, etc.

References

1. Coulson, C. A., *Rev. Mod. Phys.*, **1960**, 32,170-177.
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Graphical Table of Contents

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Figure 1
Author A, Author B, Author C
Int. J. Quant. Chem.

Quantity	Calculated	Observed	Error
Density	5.3	6.3	Within limits
Optical magnification	8.3	90.9	Utterly unacceptable

Table 1: Place table caption here.