

DISSERTATION TITLE

A THESIS PRESENTED

BY

AUTHOR NAME

SUBMITTED TO THE DEPARTMENT OF PHYSICS AND APPLIED PHYSICS,  
UNIVERSITY OF MASSACHUSETTS LOWELL,  
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DOCTOR OF PHILOSOPHY

2023

Physics Program

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AUTHOR NAME

UNIVERSITY OF MASSACHUSETTS LOWELL (2023)

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF DOCTOR  
OF PHILOSOPHY

DEPARTMENT OF PHYSICS AND APPLIED PHYSICS  
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ABSTRACT OF A THESIS SUBMITTED TO THE FACULTY OF THE DEPARTMENT OF PHYSICS AND  
APPLIED PHYSICS IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF

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DEPARTMENT OF PHYSICS AND APPLIED PHYSICS

UNIVERSITY OF MASSACHUSETTS LOWELL

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Thesis Supervisor: Supervisor Name

# **Abstract**

This thesis ...

## **Acknowledgments**

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# **1 Introduction**

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Here is a citation example. SciPy (see [Virtanen et al., 2020](#), source page 0) was used to analyze the data.

## **2 Methodology**

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## **3 Results**

## **4 Discussion**

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## **5 Conclusions**

## 6 Literature Cited

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### References

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Virtanen, P., Gommers, R., Oliphant, T. E., Haberland, M., Reddy, T., Cournapeau, D., Burovski, E., Peterson, P., Weckesser, W., Bright, J., van der Walt, S. J., Brett, M., Wilson, J., Millman, K. J., Mayorov, N., Nelson, A. R. J., Jones, E., Kern, R., Larson, E., Carey, C. J., Polat, İ., Feng, Y., Moore, E. W., VanderPlas, J., Laxalde, D., Perktold, J., Cimrman, R., Henriksen, I., Quintero, E. A., Harris, C. R., Archibald, A. M., Ribeiro, A. H., Pedregosa, F., van Mulbregt, P., & SciPy 1.0 Contributors. 2020, *Nature Methods*, 17, 261