

Optimising the Crystal Structure of a Novel Metamaterial with Negative Electric Susceptibility

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Abstract—the abstract of the document goes here

Index Terms—Metamaterial, Optimisation, Negative Electric Susceptibility

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I. INTRODUCTION

Mention metamaterials here, the potential the project has and the role of optimisation in science.

II. RELATED WORK

A. Electric Susceptibility

Electric Susceptibility is the

B. Ferroelectricity and The Clausius-Mossotti Model of Spontaneous Polarizability

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C. Crystal Lattices

- mention bravais 2D Lattices

D. Optimisation Algorithms

- mention the types of optimisation Algorithms - mention the what is needed to solve a problem such as this

III. METHODOLOGY

go through the program

- Discuss Rahul's Method Here
- Discuss optimisation pipeline
- Discuss the workflow of the script
- Discuss Optimisation Variables (i.e. bounds)

IV. SIMULATIONS AND RESULTS

go over performance, results and optimisation, error estimation

V. CONCLUSION

conclude here

ACKNOWLEDGMENT

fanks guys

Identify applicable funding agency here. If none, delete this.