

Why Polygons are Mostly Pointless

John Christensen
Jeremy Jorgensen
Gus Hart

Brigham Young University



Table of Contents

① Background

- Lattices
- Brillouin Zones
- Symmetry

② Irreducible Brillouin Zone Algorithm

- Why we have to work in the Brillouin Zone
- Finding the Irreducible Brillouin Zone
- Results

- Our Goal: Predict the properties of materials

- Our Goal: Predict the properties of materials
- The Problem: Simulating a mole of atoms is impossible





































