Summer 2021

- Misc commutative algebra

- misc algebraic geometry

- toric varieties

Summer 2022

- noncommutative algebra

- quiver algebras

Somewhere category theory?

Introduction

1 Algebra

1.1 Discussion of Language and Notation

1.2 Rings

1.3 Modules

1.4 Associative Algebras

2 Category Theory

2.1 Basic Definitions

2.2 Monoidal Categories

2.3 Pre/additive/abelian categories

3 Representation Theory

3.1 Quiver Algebra