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## 1 Introduction

The following material is based on this paper [Wil13] Cluster Algebra was invented by Sergey Fomin and Andrei Zelevinsky to tackle total positivity and total nonnegativity problems

## 2 Quiver and Exchange Matrices

Must put things in here

## 3 Seeds and Mutation

## References

[Wil13] Lauren K. Williams. Cluster algebras: an introduction, 2013.