AFFINE PAVING OF PARTIAL FLAG QUIVER VARIETY

XIAOXIANG ZHOU

Abstract. In this article, we establish an affine paving for partial flag quiver varieties when the quiver is of Dynkin type. By copying results in [1, section 6] word by word, the same problem for affine quiver reduced to the case where the representation is regular quasi-simple. The idea of the proof mainly comes from [1], and the result is a natural continuation of [2].

Contents

1. Introduction

2. Main Theorem

3. Application: Dynkin Case

4. Application: Affine Case

References

[1] Giovanni Cerulli Irelli, Francesco Esposito, Hans Franzen, and Markus Reineke. Cell decompositions and algebraicity of cohomology for quiver grassmannians, 2019.
[2] Ruslan Maksimau. Flag versions of quiver grassmannians for dynkin quivers have no odd cohomology over $\mathbb{Z}$, 2019.

School of Mathematical Sciences, University of Science and Technology of China, Hefei, 230026, P.R. China,
Email address: email:xx352229@mail.ustc.edu.cn