

Why can't I make the title look nice

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Abstract

Future me will put some abstract here

1 Introduction

2 Annex of necessary backgrounds

3 Two examples in $\mathrm{PSL}_2(\mathbb{R})$ (that will help us later)

4 The plot thickens

Jorgenson first discovered the following interesting phenomenon.

Fact 4.1. *There exists a sequence of infinite cyclic groups $\langle H_n \rangle$, where H_n is an isometry of hyperbolic type, such that the sequence converges to a subgroup isomorphic to \mathbb{Z}^2 , whose generators are both parabolic isometries.*

In this section, we will construct one such sequence explicitly. We will use the upper half-plane model $\mathbb{C} \times \mathbb{R}^+$ for \mathbb{H}^3 . The isometry group $\mathcal{I}^+(\mathbb{H}^3) \cong \mathrm{PSL}_2(\mathbb{C})$ acts on the boundary $\overline{\mathbb{C}}$ by fractional linear transformation.

References

[PH] Author names. Article Titles. *Journal Title*, ??? some mysterious numbers.