

# FONTAINEWINTENBERGER

## CONTENTS

### 1. INTRODUCTION

**Definition 1.1.** Let  $K$  be a local field and  $L/K$  be an extension. We say the extension  $L/K$  is arithmetically profinite if for all  $u \geq -1$ , we have  $G_K^u G_L$  is open in  $G_K$ .

### 2. EXAMPLE

Here you can use LaTeX. [?]. You must cite something to make it work.

**Lemma 2.1.** *this should be a doc string.*

*Proof.*

□

**Theorem 2.2.** *Here is a doc string*

*Proof.*

□

**Lemma 2.3.** *No documentation.*

**Theorem 2.4.** *No documentation.*

## REFERENCES

- [Mar18] Daniel A. Marcus, *Number fields*, Universitext, Springer, Cham, 2018, Second edition of [MR0457396], With a foreword by Barry Mazur. MR 3822326