My formalization project

TyDHC

January 8, 2026

Chapter 1

Miniproject: Adeles

1.1 The Basic

There are several goals to this miniproject.

Lemma 1. *The adeles of a number field are locally compact.*

The adeles of a number field K are the product of the finite and infinite adeles, and mathlib knows that they're a K-algebra and a topological ring.

Chapter 2

Miniproject: Adeles temp

2.1 The temp2

There are several goals to this miniproject.

Lemma 2. *The adeles of a number field are locally compact111.*

The adeles of a number field K are the product of the finite and infinite adeles, and mathlib knows that they're a K-algebra and a topological ring.

2.2 The temp3

There are several goals to this miniproject.

Lemma 3. *The adeles of a number field are locally compact222.*

The adeles of a number field K are the product of the finite and infinite adeles, and mathlib knows that they're a K-algebra and a topological ring.