

# My formalization project

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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 temp

There are several goals to this miniproject.

**Lemma 2.** *The adeles of a number field are locally compact<sup>111</sup>.*

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.