

## COMPLETE FIELDS

## Why

We want the a field which corresponds to points on the real line.<sup>1</sup>

## Definition

An ordered field  $^2$  is complete if every nonempty subset bounded from above has a least upper bound.

<sup>&</sup>lt;sup>1</sup>Future editions are likely to modify this why.

<sup>&</sup>lt;sup>2</sup>To be defined in future editions, but we take the usual definition of a field with an order. See, for example Rational Orderor Real Order).

