

# Totally Ordered Fields

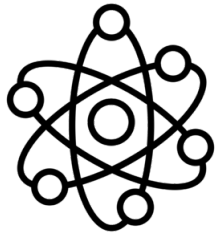
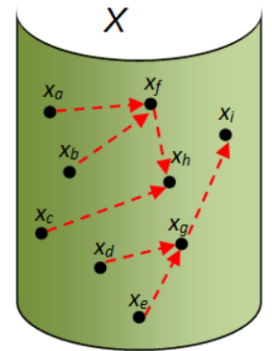
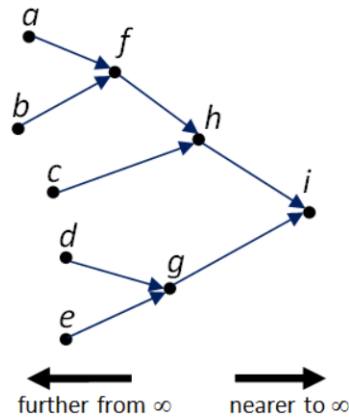
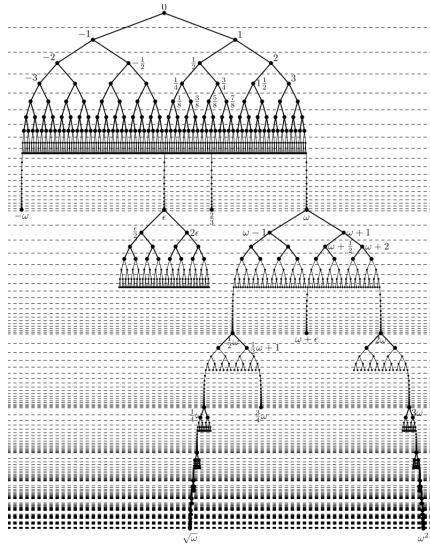
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## Abstract

Fields are one of the most natural mathematical structures of constructed number systems. In this mini-course, we'll introduce the concepts of ordered fields and systematically try to capture and describe the collections and relations of these ordered fields. It will dip into multiple branches of math and hopefully introduce tools which can chip away to show a broader view of what numbers really are.

## Content



### **Prerequisites**

Knowledge of fields, ordinals, the convergence of sequences, and the definition of a metric space could be helpful.