# Near-Semirings

# December 3, 2023

1
10. Constructions With Categories
11. Kan Extensions
Bicategories
12. Bicategories
13. Internal Adjunctions
Internal Category Theory
14. Internal Categories
Cyclic Stuff
15. The Cycle Category
Cubical Stuff
16. The Cube Category
Globular Stuff

17. The Globe Category

#### Cellular Stuff

18. The Cell Category

#### Monoids

- 19. Monoids
- 20. Constructions With Monoids

#### Monoids With Zero

- 21. Monoids With Zero
- 22. Constructions With Monoids With Zero

#### Groups

- 23. Groups
- 24. Constructions With Groups

#### Hyper Algebra

- 25. Hypermonoids
- 26. Hypergroups
- 27. Hypersemirings and Hyperrings
- 28. Quantales

#### **Near-Rings**

29. Near-Semirings

30. Near-Rings

#### Real Analysis

- 31. Real Analysis in One Variable
- 32. Real Analysis in Several Variables

## Measure Theory

- 33. Measurable Spaces
- 34. Measures and Integration

### Probability Theory

34. Probability Theory

#### Stochastic Analysis

- 35. Stochastic Processes, Martingales, and Brownian Motion
- 36. Itô Calculus
- 37. Stochastic Differential Equations

#### Differential Geometry

38. Topological and Smooth Manifolds

#### Schemes

39. Schemes