

homotopy theory, homotopy theory, model category, dependent type theory, category theory, fibered category theory, comprehensive category, n-types, n-connectedness

Plan of coursework

After providing preliminary courses on category theory and homotopy theory, we will give elements of homotopy theory theory.

Method for evaluating learning results

By occasional reports

Educational materials, reference documents, and documents distributed, etc.

MacLane, Categories for the Working Mathematician Voevodsky et al., Homotop Type Theory Jacobs, Categorical Logic and Type Theory Hirschborn Model Categories and Their Localizations Whitehead Elements of Homotopy Theory Goerss and Jardine, Simplicial Homotopy Theory Lurie, Higher Topos Theory

<< Back

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