

Introduction to Homotopy Theory

(notes based on lectures by Sergiy Maksymenko)

Abstract

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1 Notes on Topology

2 Homotopy

2.1 Definition

2.2 Examples

2.3 Homotopy and equivalence

Theorem 2.1: Homotopy equivalence between spaces is an equivalence relation.

Proof. ... □

Theorem 2.2: A homotopy between continuous maps is an equivalence relation.

Proof. ... □

3 Resources

Course page: <https://sites.google.com/site/kafedramatematikau/products-services/homotopy-theory>