

ALGEBRAIC AND GEOMETRIC TOPOLOGY

HOMEWORK 4 SOLUTIONS

Feedback Exercises:

4.1. Write down the definition of a homotopy (with fixed endpoints) of paths in a space X , and of concatenation of paths. Write out proofs of two of the following (your choice):

- homotopy is a reflexive relation;
- homotopy is a symmetric relation;
- homotopy is a transitive relation;
- concatenation respects homotopy classes.

Solution:

A homotopy between two paths f_0 and f_1 in X with $f_i(0) = x_0$ and $f_i(1) = x_1$ is a continuous map

$$F : I \times I \rightarrow X$$

satisfying $F(s, 0) = f_0(s)$, $F(s, 1) = f_1(s)$, $F(0, t) = x_0$, and $F(1, t) = x_1$ for all $s, t \in [0, 1]$.

Given paths f and g in X with $f(1) = g(0)$, their concatenation $f \cdot g$ is given by

$$f \cdot g(s) = \begin{cases} f(2s) & \text{if } s \in [0, 1/2] \\ g(2s - 1) & \text{if } s \in [1/2, 1]. \end{cases}$$

Reflexive: a homotopy from f to itself is given by $F(s, t) = f(s)$.

Symmetric: if F is a homotopy from f to g then $G(s, t) = F(s, 1 - t)$ is a homotopy from g to F .

Transitive: if F is a homotopy from f to g and G is a homotopy from g to h , then a homotopy H from f to h is given by

$$H(s, t) = \begin{cases} F(s, 2t) & \text{if } t \in [0, 1/2] \\ G(s, 2t - 1) & \text{if } t \in [1/2, 1]. \end{cases}$$

This is continuous by the gluing lemma, since $F(s, 1) = f_1(s) = G(s, 0)$.

Concatenation respects homotopy classes: if F is a homotopy from f_0 to f_1 , both paths from x_0 to x_1 , and G is a homotopy from g_0 to g_1 , both paths from x_1 to x_2 , then a homotopy H from $f_0 \cdot g_0$ to $f_1 \cdot g_1$ is given by

$$H(s, t) = \begin{cases} F(2s, t) & \text{if } s \in [0, 1/2] \\ G(2s - 1, t) & \text{if } s \in [1/2, 1]. \end{cases}$$

This is continuous by the gluing lemma, since $F(1, t) = x_1 = G(0, t)$.

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S Ben Porath



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