Homework 08 Cellular Homology

Algebraic Topology - Winter 2021

Due: April 01, 2021, 11:59 pm

Compute the cellular homology of the following spaces for the coefficients \mathbb{Q} , $\mathbb{Z}/p\mathbb{Z}$ (where p is a prime number), and \mathbb{Z} :

- 1. genus g surfaces,
- 2. \mathbb{RP}^2 ,
- 3. Klein bottle.

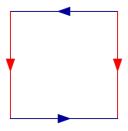


Figure 1: Gluing diagram of a Klein bottle.