

HOMEWORK 6 – 2019

Exercise 1. Construct a CW-complex X with the following homology groups:

$$H_n(X) = \begin{cases} \mathbb{Z}, & \text{for } n = 0; \\ \mathbb{Z} \oplus \mathbb{Z}_6, & \text{for } n = 2019; \\ \mathbb{Z}_9, & \text{for } n = 2020; \\ 0, & \text{otherwise.} \end{cases}$$