

$So(5)$ 0th boundary map is transpose of 0
 1th boundary map is not transpose of 8
 2th boundary map is not transpose of 7
 3th boundary map is not transpose of 6
 4th boundary map is not transpose of 5
 5th boundary map is not transpose of 4
 6th boundary map is not transpose of 3
 7th boundary map is not transpose of 2
 8th boundary map is not transpose of 1
 9th boundary map is transpose of 0
 0 th homology generators are

$$(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)$$

1 th homology generators are

$$(0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 1, 0, 0, 1, 1, 0, 0, 1, 1, 0, 0, 1, 1, 0, 0, 0, 1, 1, 1, 1, 0, 0, 0, 0, 1, 1, 1, 1, 0, 0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0, 0)$$

2 th homology generators are

[illegible]

3 th homology generators are

[illegible]

4 th homology generators are

[illegible]

5 th homology generators are

$$(0, 0, 0, 0, 0, 0, 0, 0, 0, 0,$$
[illegible]

7 th homology generators are

[illegible]

8 th homology generators are

[illegible]

9 th homology generators are

[illegible]

10 th homology generators are

$$(0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1)$$
$$H_0 = \mathbb{Z}_2^1$$
$$H_1 = \mathbb{Z}_2^1$$
$$H_1 = \mathbb{Z}_2$$
$$H_2 = \mathbb{Z}_2^1$$
$$H_3 = \mathbb{Z}_2^2$$
$$H_1 = \mathbb{Z}_2^2$$
$$H_4 = \mathbb{Z}_2$$

$$H_6 = \mathbb{Z}_2^2$$

$$H_7 = \mathbb{Z}_2^2$$

$$H_8 = \mathbb{Z}_2^1$$

$$H_9 = \mathbb{Z}_2^1$$

$$H_{10} = \mathbb{Z}_2^1$$