

So(4) 1th boundary map is transpose of 6
 2th boundary map is transpose of 5
 3th boundary map is not transpose of 4
 4th boundary map is not transpose of 3
 5th boundary map is transpose of 2
 6th boundary map is transpose of 1
 1 th homology generators are

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

2 th homology generators are

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

3 th homology generators are

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

4 th homology generators are

[illegible]

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

5 th homology generators are

[illegible]

6 th homology generators are

[illegible]

7 th homology generators are

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

$$H_1 = \mathbb{Z}_2^1$$

$$H_2 = \mathbb{Z}_2^1$$

$$H_3 = \mathbb{Z}_2^1$$

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

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

$$H_0 = \mathbb{Z}^1$$

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