Javaple Exercises Output, Andrew Banman

>> ex1_torus

intervals =

Dimension: 0 [0.0, infinity): [0] Dimension: 1

[0.0, infinity): [0,6] + [3,6] + [0,3] [0.0, infinity): [1,2] + [0,2] + [0,1]

Dimension: 2

[0.0, infinity): [1,3,4] + [0,1,3] + [1,7,8] + [0,3,5] + [5,7,8] + [3,6,8] + [0,2,5] + [2,6,8] + [3,5,8] + [1,2,8] + [1,2,4] + [0,2,6] + [4,5,7] + [2,4,5] + [0,6,7] + [4,6,7] + [3,4,6] + [0,1,7]

>> ex2_kleinbottle

intervals =

Dimension: 0 [0.0, infinity): [0] Dimension: 1

[0.0, infinity): [1,2] + 2[0,2] + [0,1]

>> ex3_RP2

intervals =

Dimension: 0 [0.0, infinity): [0]

>> ex7 sizeVR

Max filtration time, size of VR, computation time

For d_max = 3, we have the following:

900.0000e-003 82.4790e+003 489.7838e-003 920.0000e-003 94.5630e+003 159.6916e-003 960.0000e-003 123.9250e+003 443.3811e-003 1.0200e+000 183.3070e+003 302.2826e-003 1.1000e+000 302.8190e+003 828.0120e-003

For $d_max = 4$, we have the following:

900.0000e-003 159.1560e+003 250.4750e-003

>> ex8_9 non_zero_Betti2 = 1 0 1 non_zero_Betti7 = 1 0 0 0 0

0 0 1

>> ex16_lazyTorus









