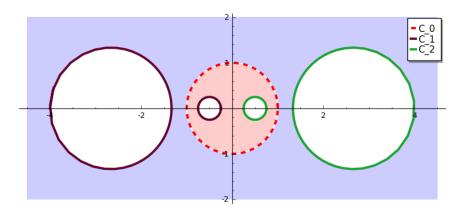
1 Setup

With the group data $\delta = [-1/2, 1/2], q = [1/4, 1/4]$ we get the following image of D_{ζ} and D'_{ζ} . The union of



the red shaded region and the purple shaded region is the fundamental domain, F.

2 Results

All current tests (15/1/31) passed in all cases of product_threshold

| $product_threshold$ | build ω time (s) | slitmap time (s) | abs((5.17)) | approx branch pts |
|----------------------|-------------------------|------------------|-------------|--|
| 2 | 3.2 | 0.99 | 0.85 | [(-3.549561, -1.002919), (1.003466, 6.763318)] |
| 3 | 0.40 | 1.5 | 2.5 | [(-1.036200, -1.002797), (1.003321, 1.048239)] |
| 4 | 0.72 | 2.2 | 4.1 | [(-1.036062, -1.002788), (1.003332, 1.048425)] |
| 5 | 0.95 | 3.1 | 5.2 | [(-1.035680, -1.002785), (1.003328, 1.047908)] |
| 6 | 1.4 | 4.4 | 5.9 | [(-1.035676, -1.002785), (1.003329, 1.047912)] |
| 7 | 2.0 | 6.4 | 6.3 | [(-1.035669, -1.002785), (1.003329, 1.047903)] |
| 8 | 3.1 | 11. | 6.5 | [(-1.035669, -1.002785), (1.003329, 1.047903)] |
| 9 | 5.5 | 30. | 6.6 | [(-1.035668, -1.002785), (1.003329, 1.047902)] |
| 10 | 13. | 110. | 6.7 | [(-1.035668, -1.002785), (1.003329, 1.047902)] |
| 11 | 37. | 310. | 6.8 | [(-1.035668, -1.002785), (1.003329, 1.047902)] |

We get the following figures

These figures are clearly showing something bad. The circles should be collapsing to intervals. Look at more detail for product_threshold = 3 after using the control of product_threshold = 2 (which looks like I would expect.

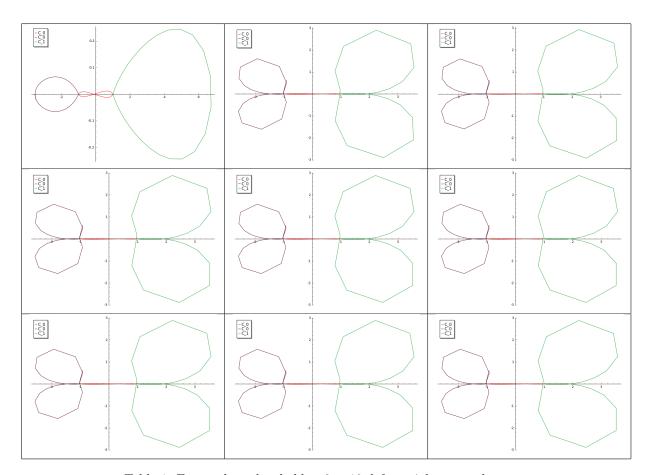
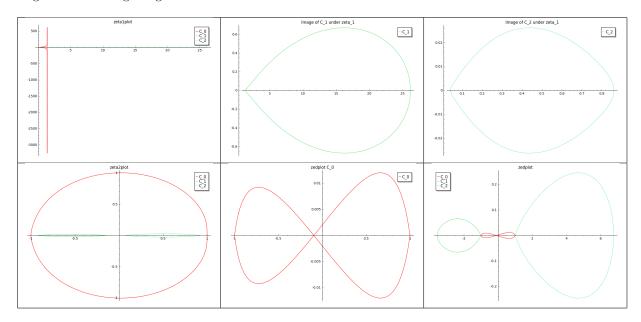


Table 1: For product_threshold = 2,...,10, left to right top to bottom.

2.1 Results - product_threshold=2

We get the following images:



2.2 Results - product_threshold=3

We get the following images:

