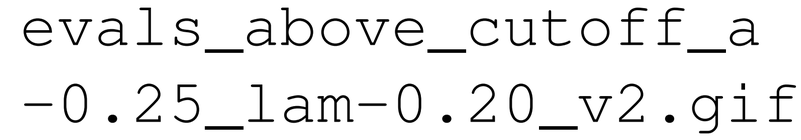
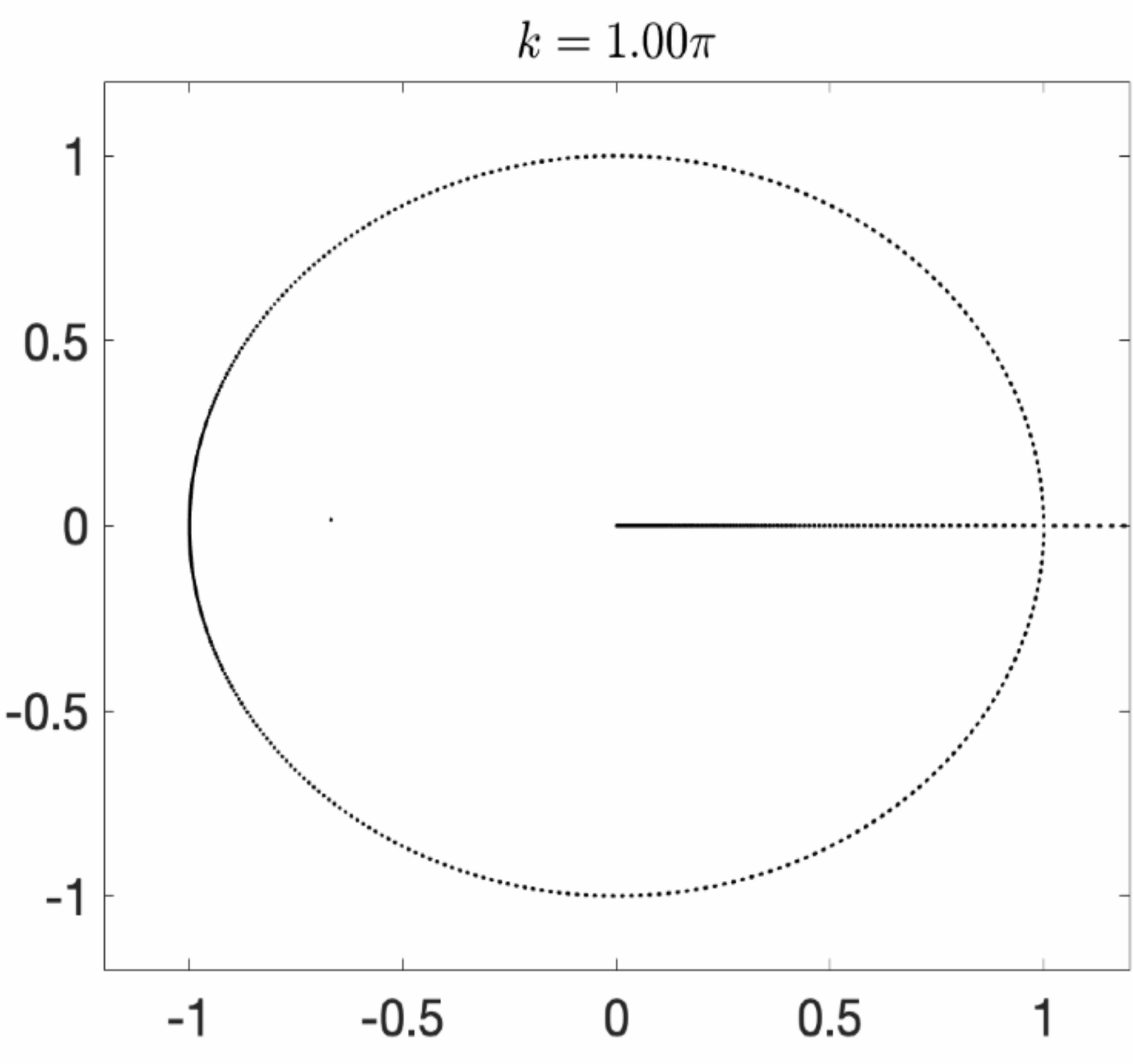
Add artificial damping with parameter λ

Modified boundary condition

- $\phi_n = 0 \mapsto \phi_n + \mathrm{i}\,\lambda\,\phi = 0$ on δC

`evals_above_cutoff_a -0.25_lam-0.20_v2.gif`

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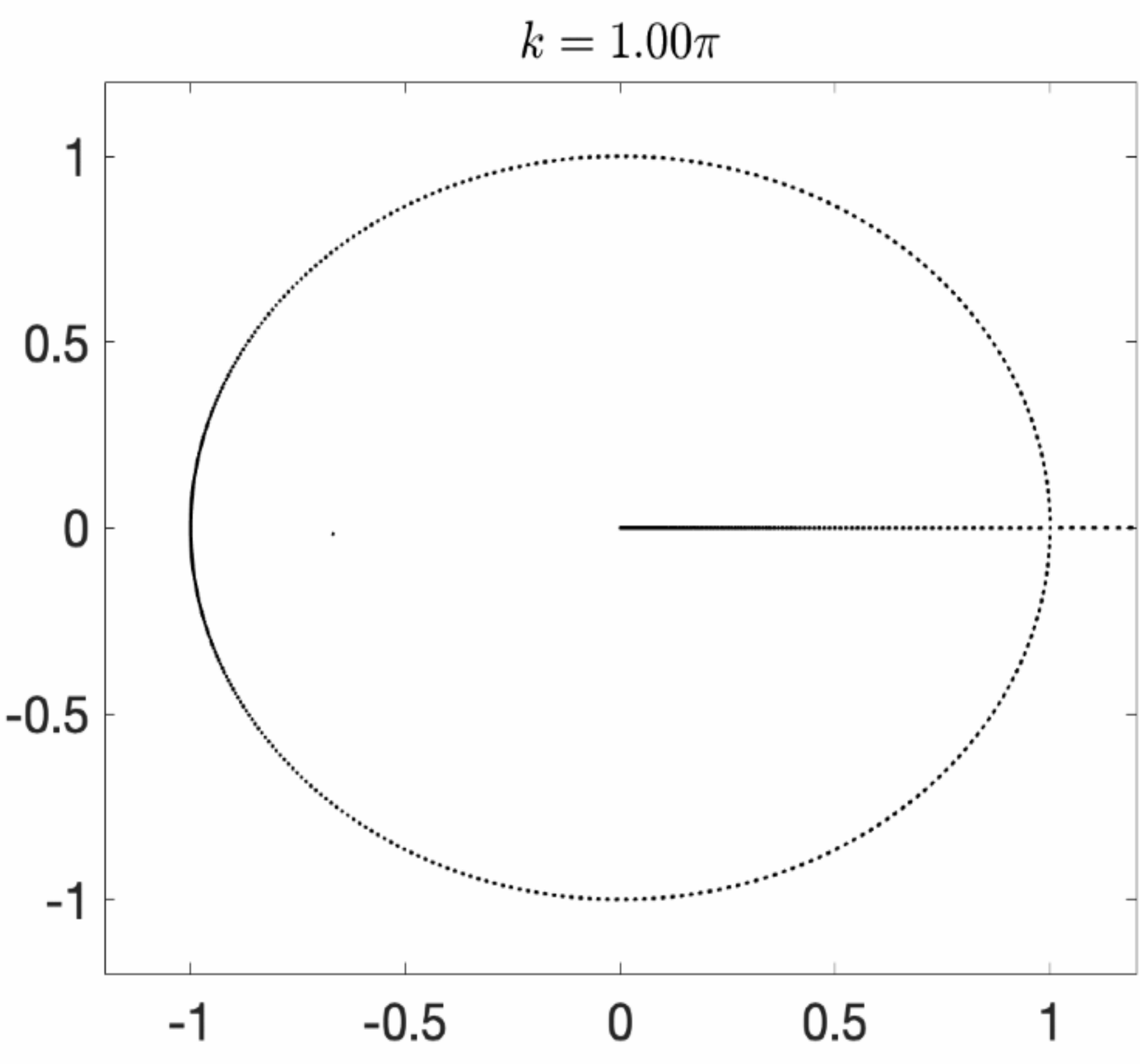
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1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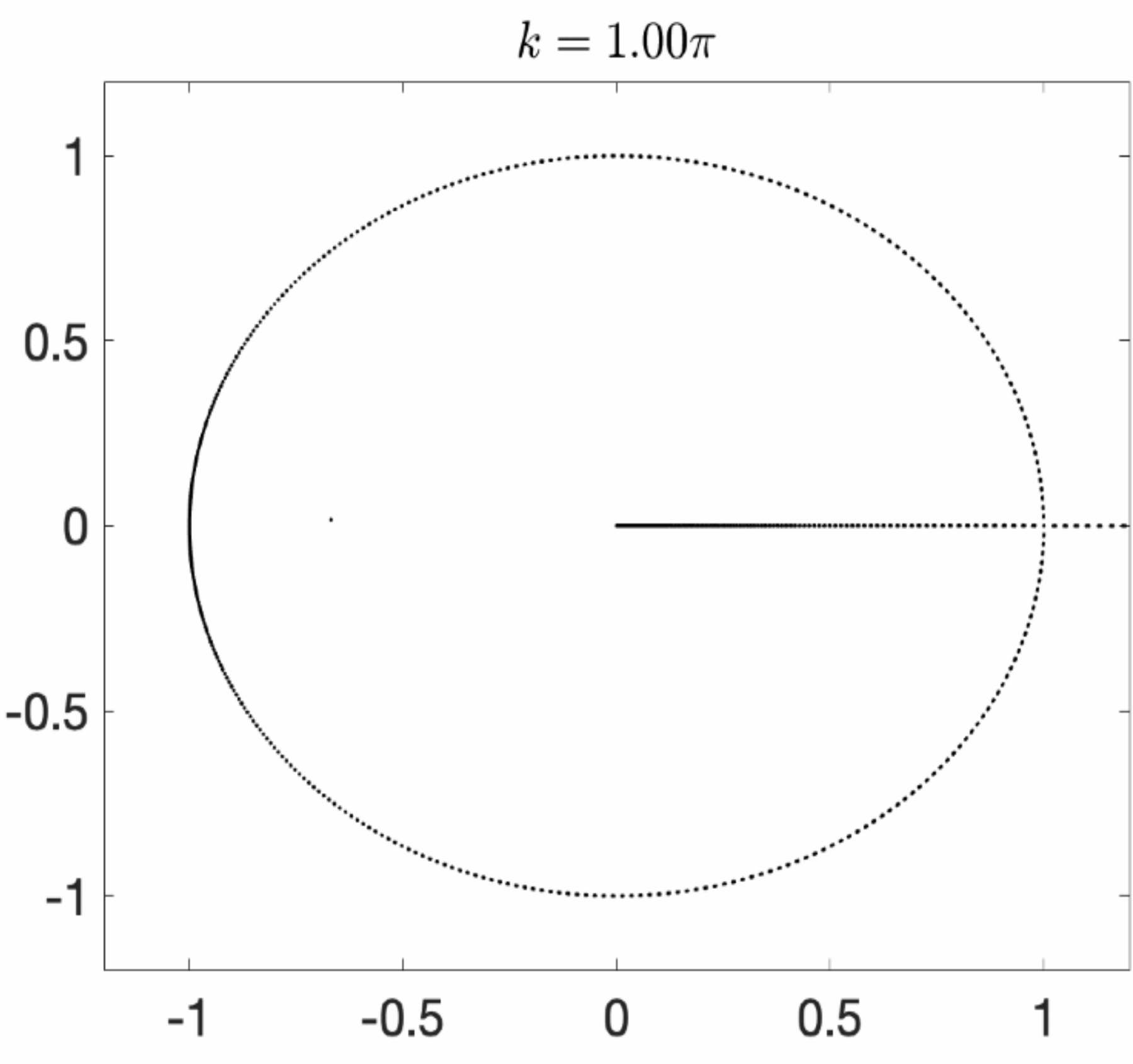
0
-0.5
-1
-1
-0.5
0
0.5
1

$$\lambda == -0.2$$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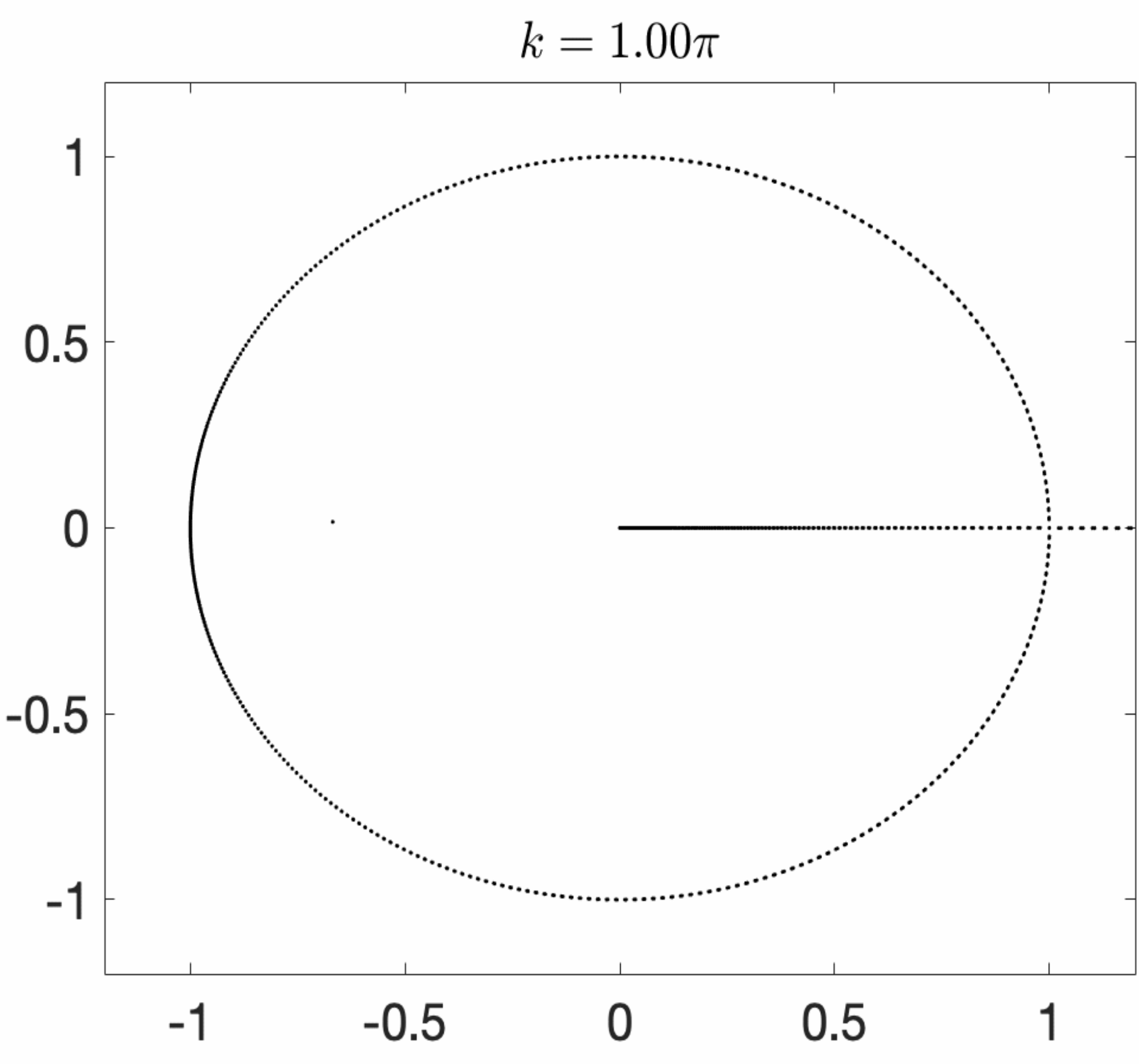
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1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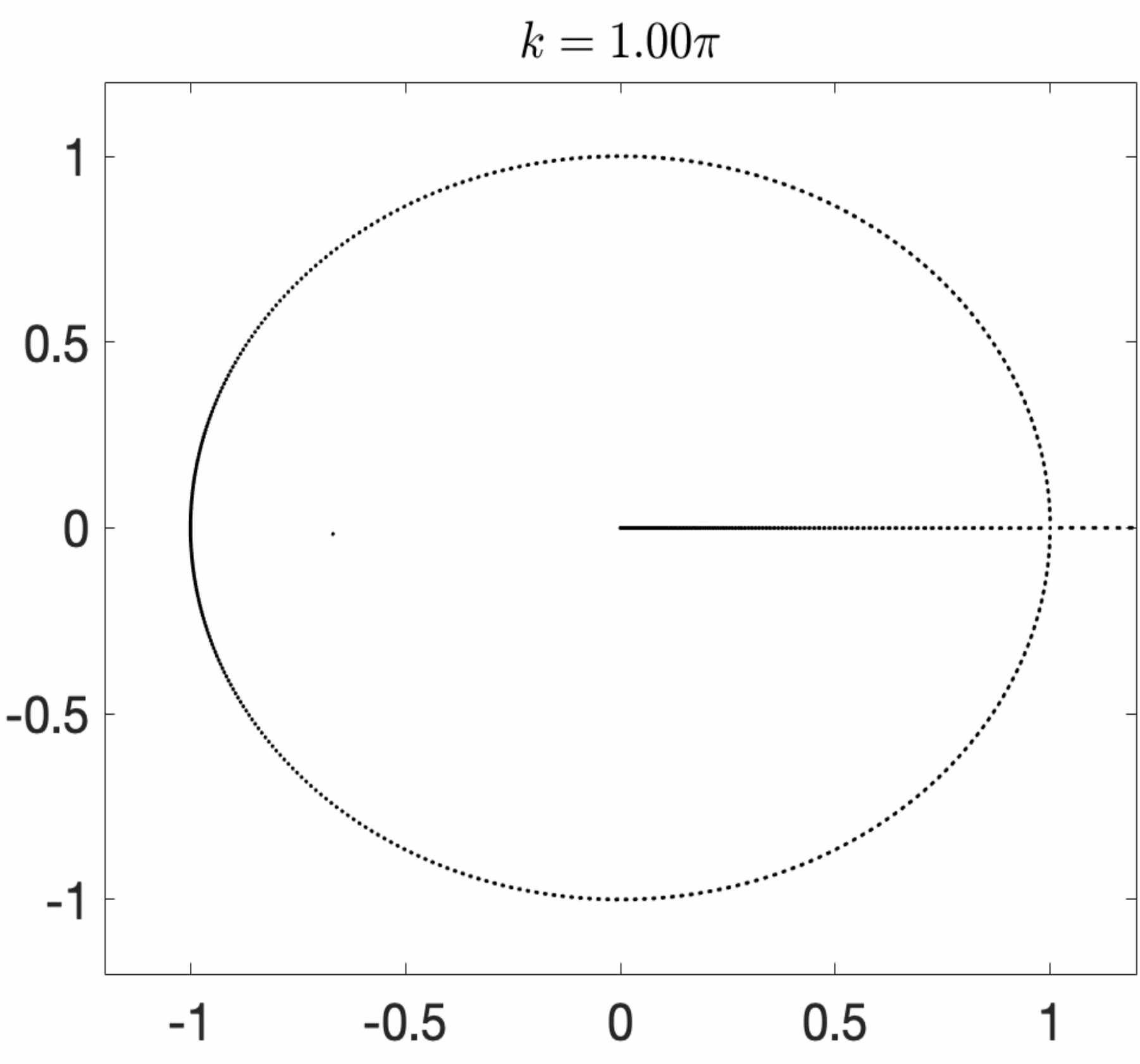
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1


$k = 1.00\pi$
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1

Add artificial damping with parameter λ

Modified boundary condition

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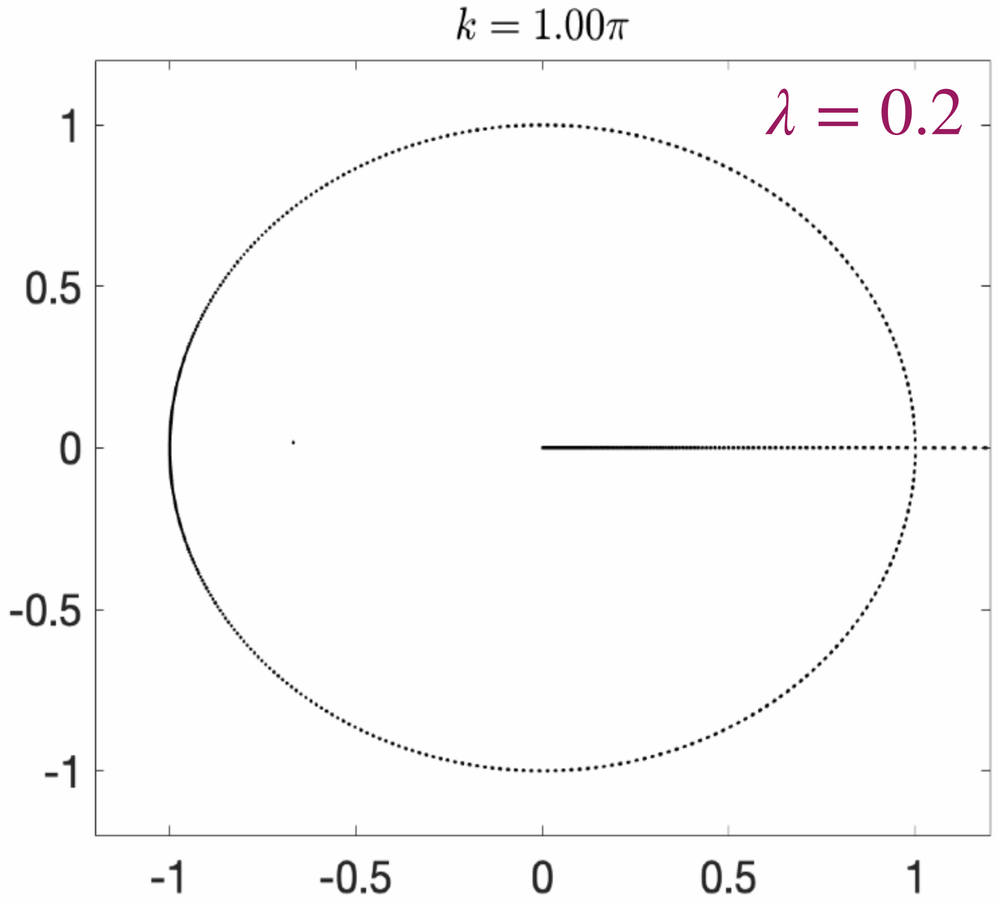

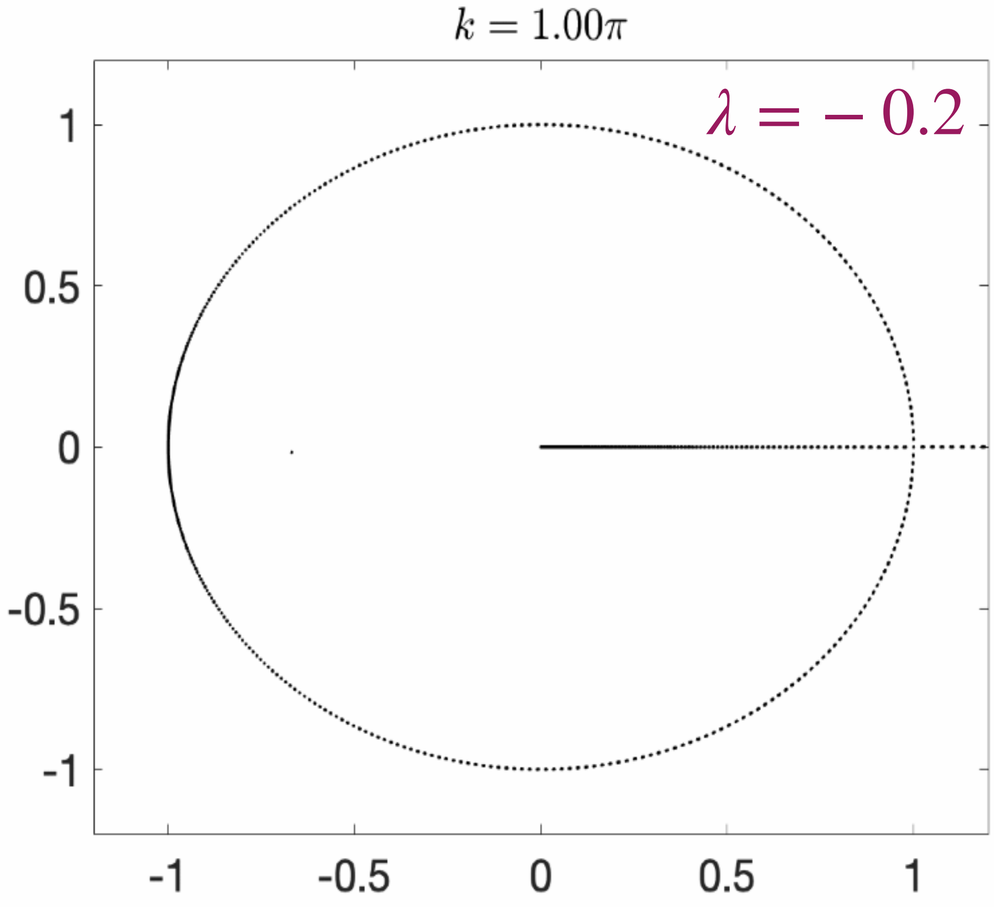
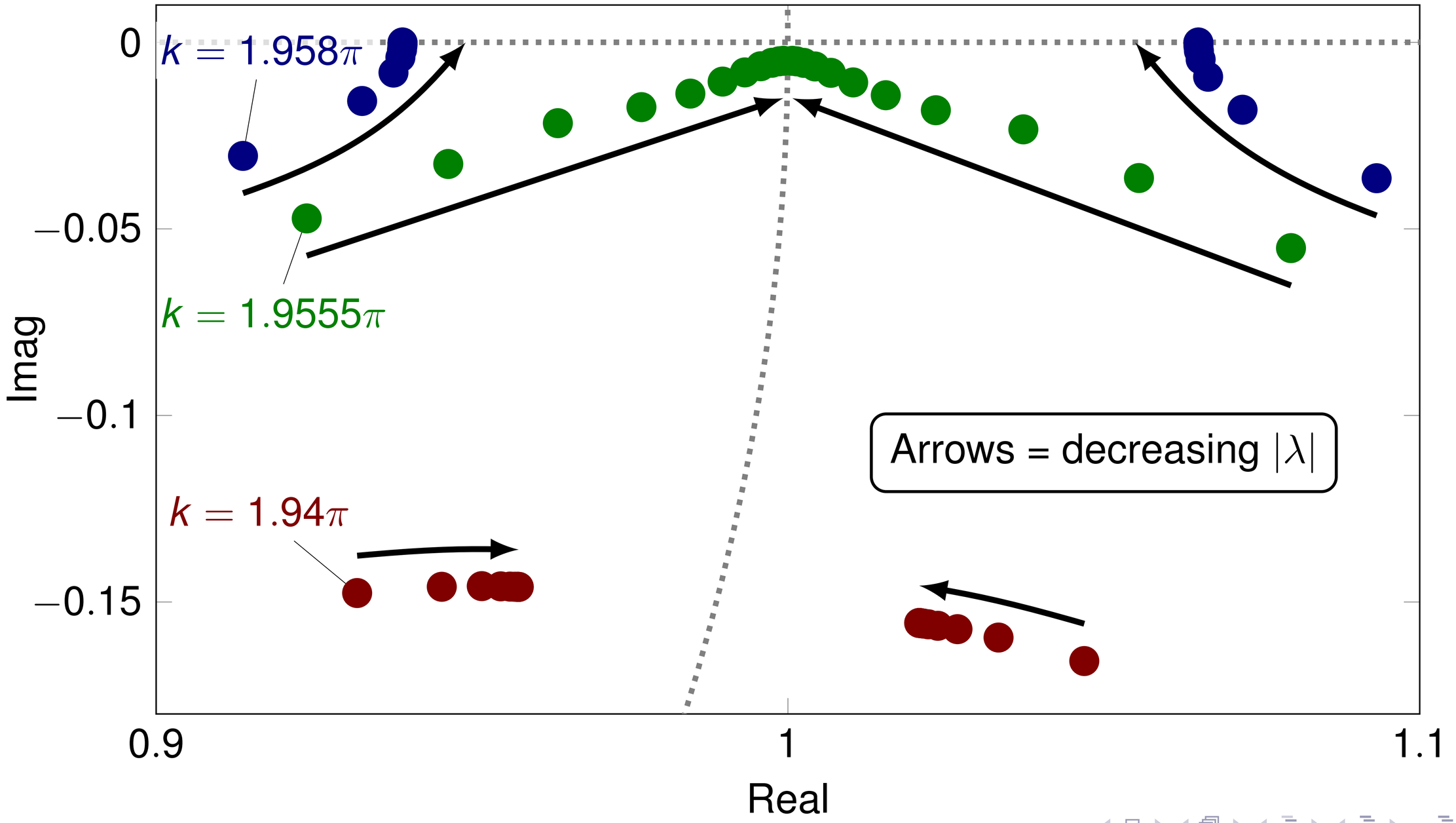
Homotopy recovers eigenvalues for undamped problem