

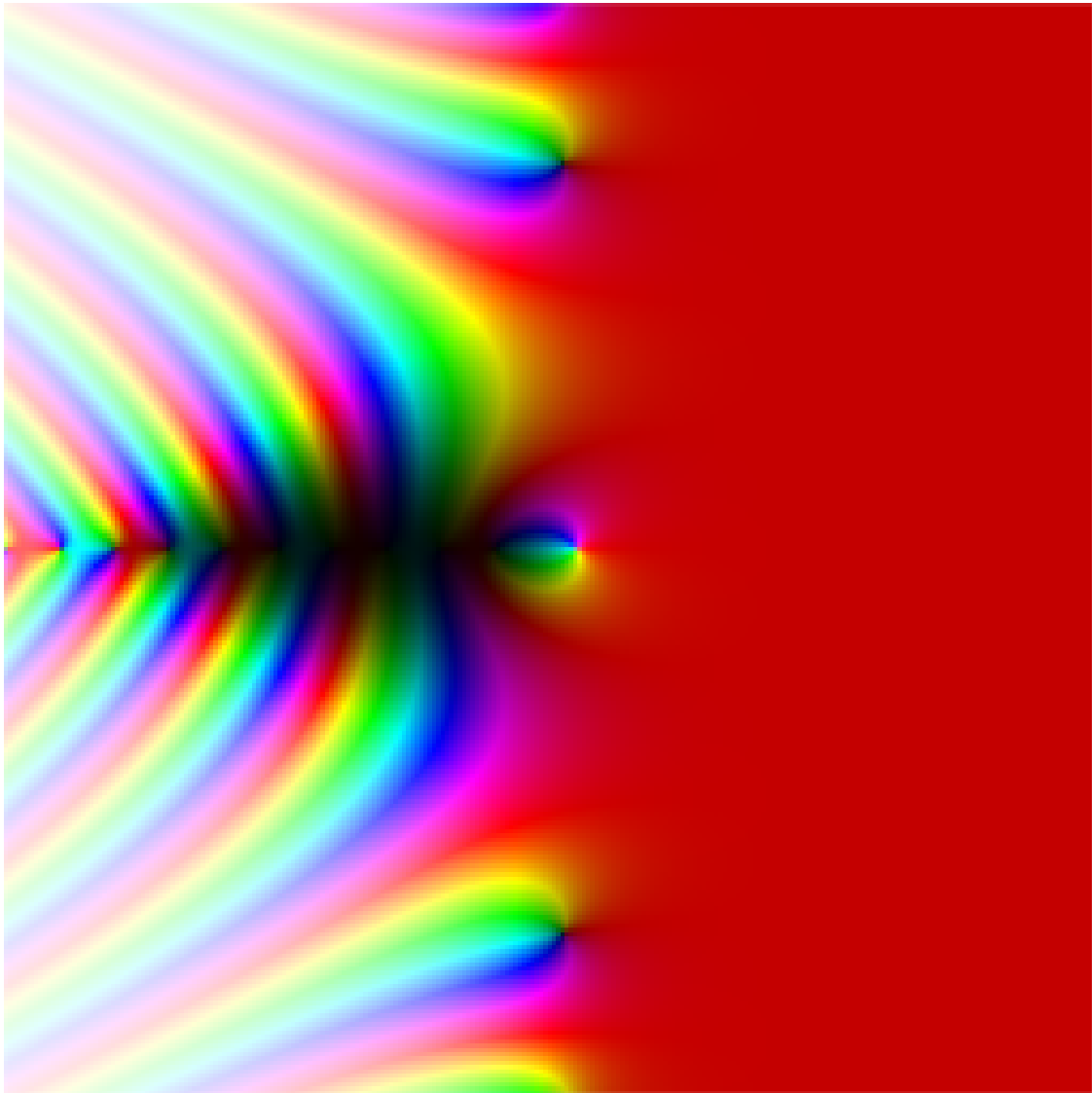
zeta-2015-03-13-085104

William Stein

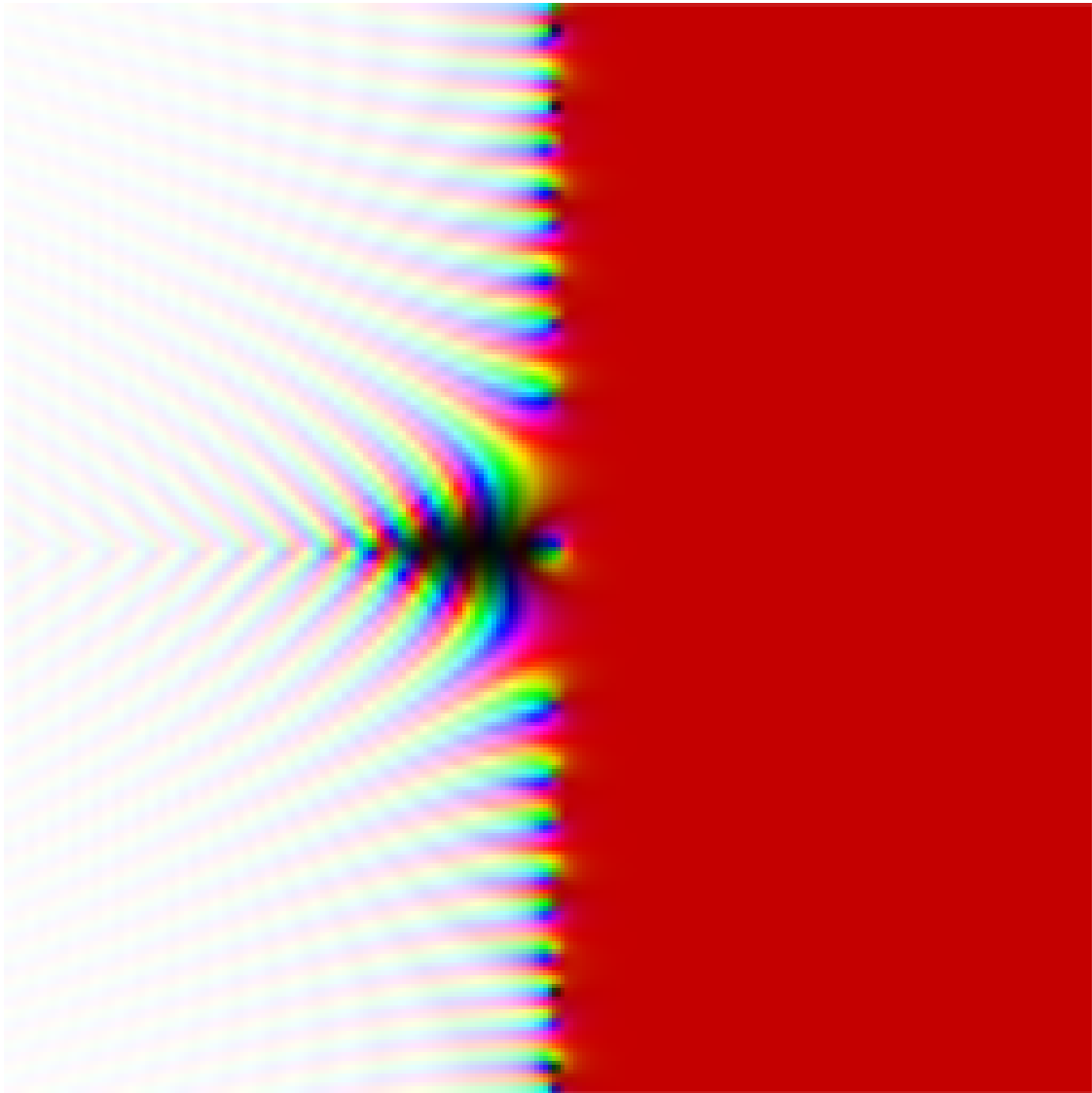
3/13/2015

Contents

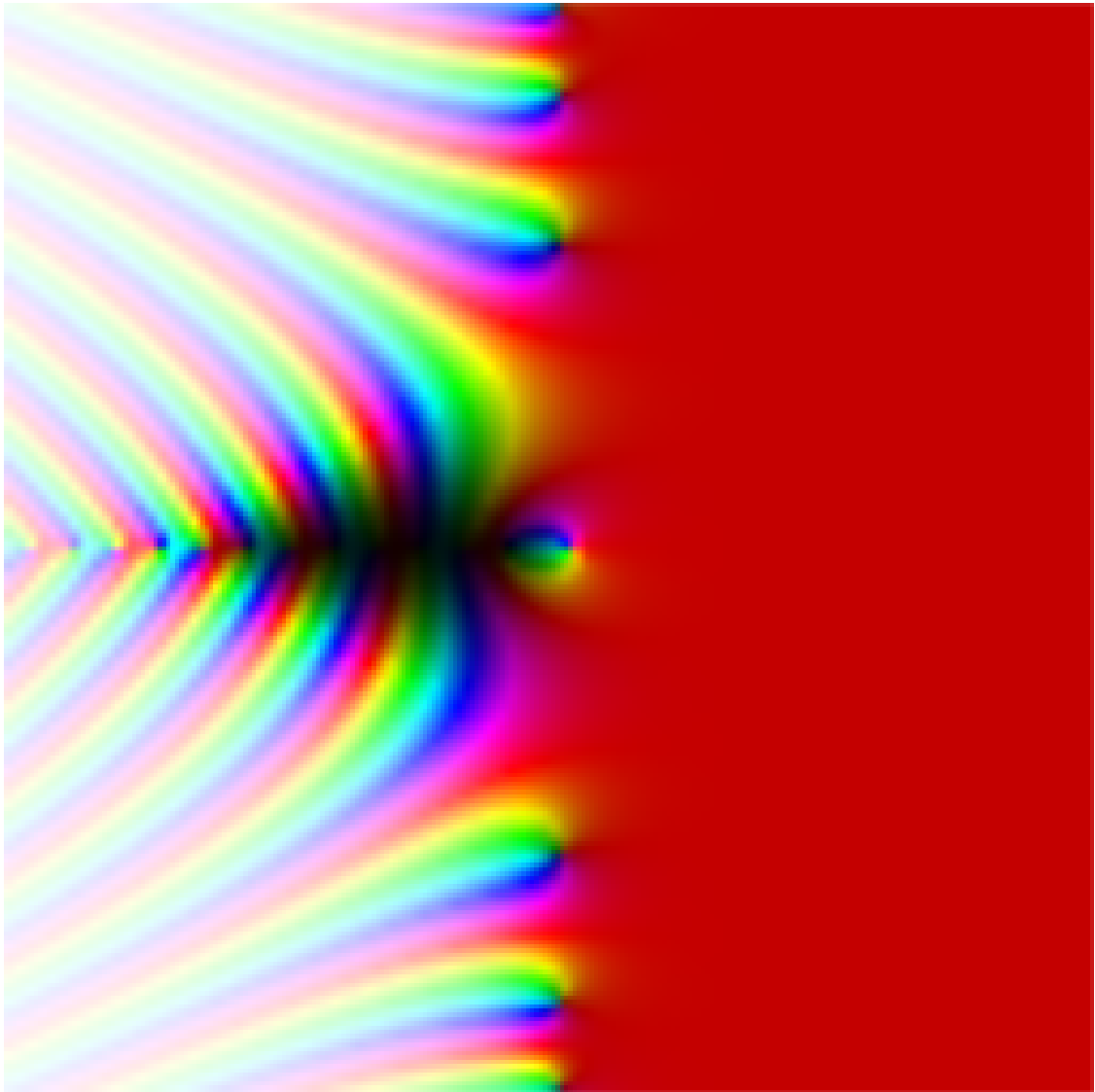
```
B = 20
show(complex_plot(zeta, (-B,B),(-B,B), frame=False, axes=False, \
    plot_points=300), svg=False, figsize=[3,3])
```

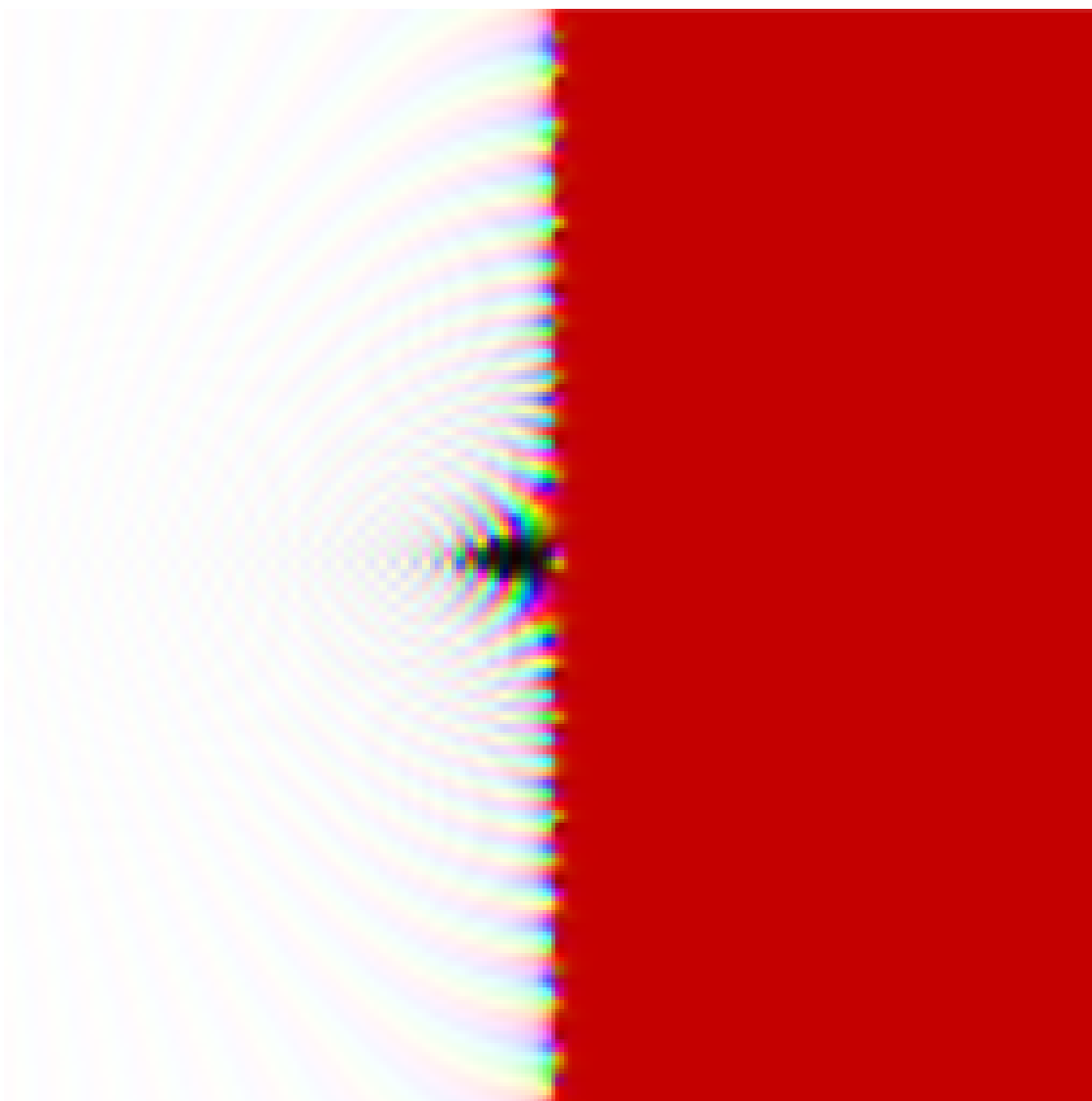


```
B = 50
show(complex_plot(zeta, (-B,B),(-B,B), frame=False, axes=False, \
    plot_points=100), svg=False, figsize=[3,3])
```

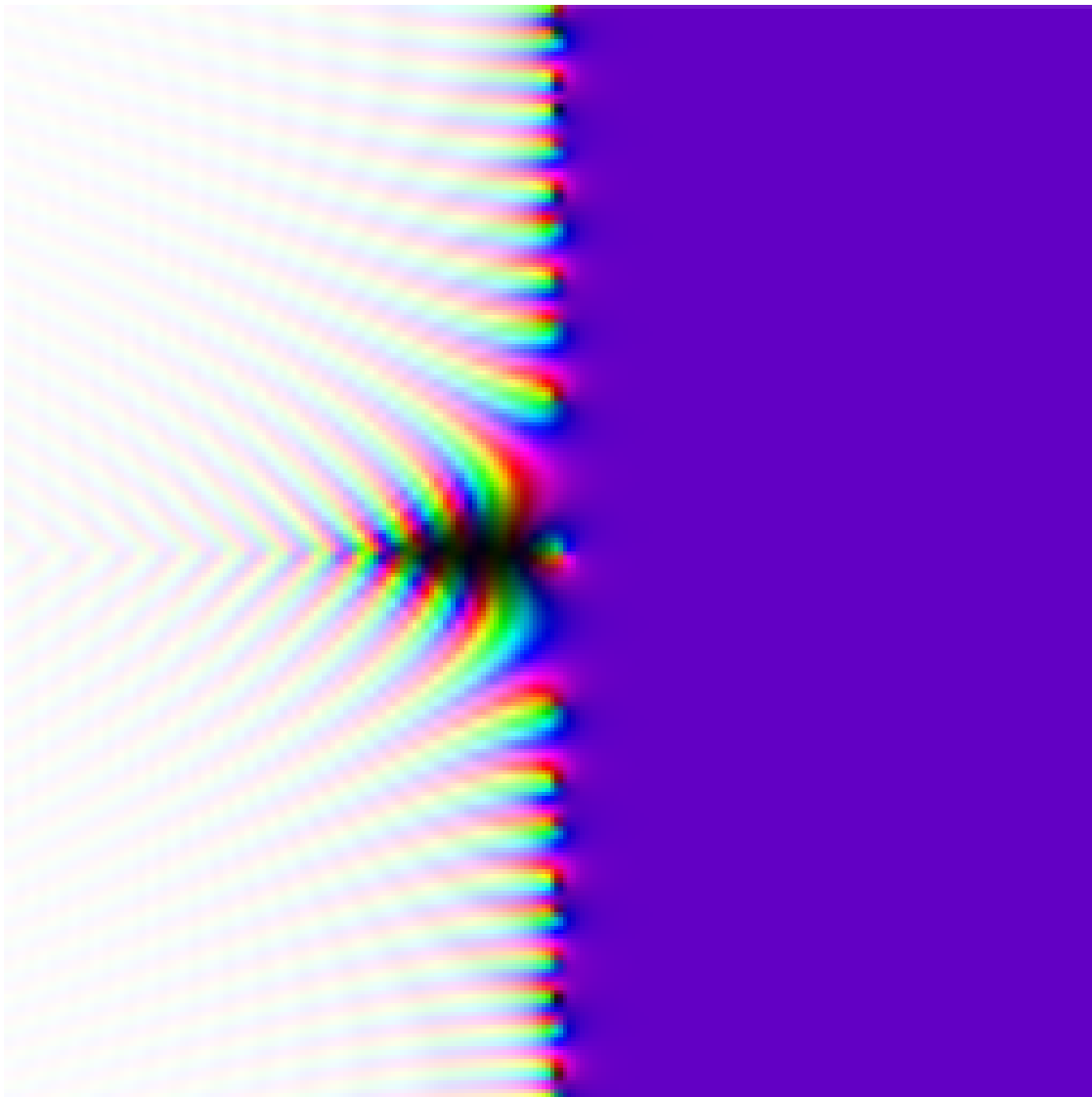


```
B = 25
show(complex_plot(zeta, (-B,B),(-B,B), frame=False, axes=False, \
  plot_points=100), svg=False, figsize=[3,3])
```

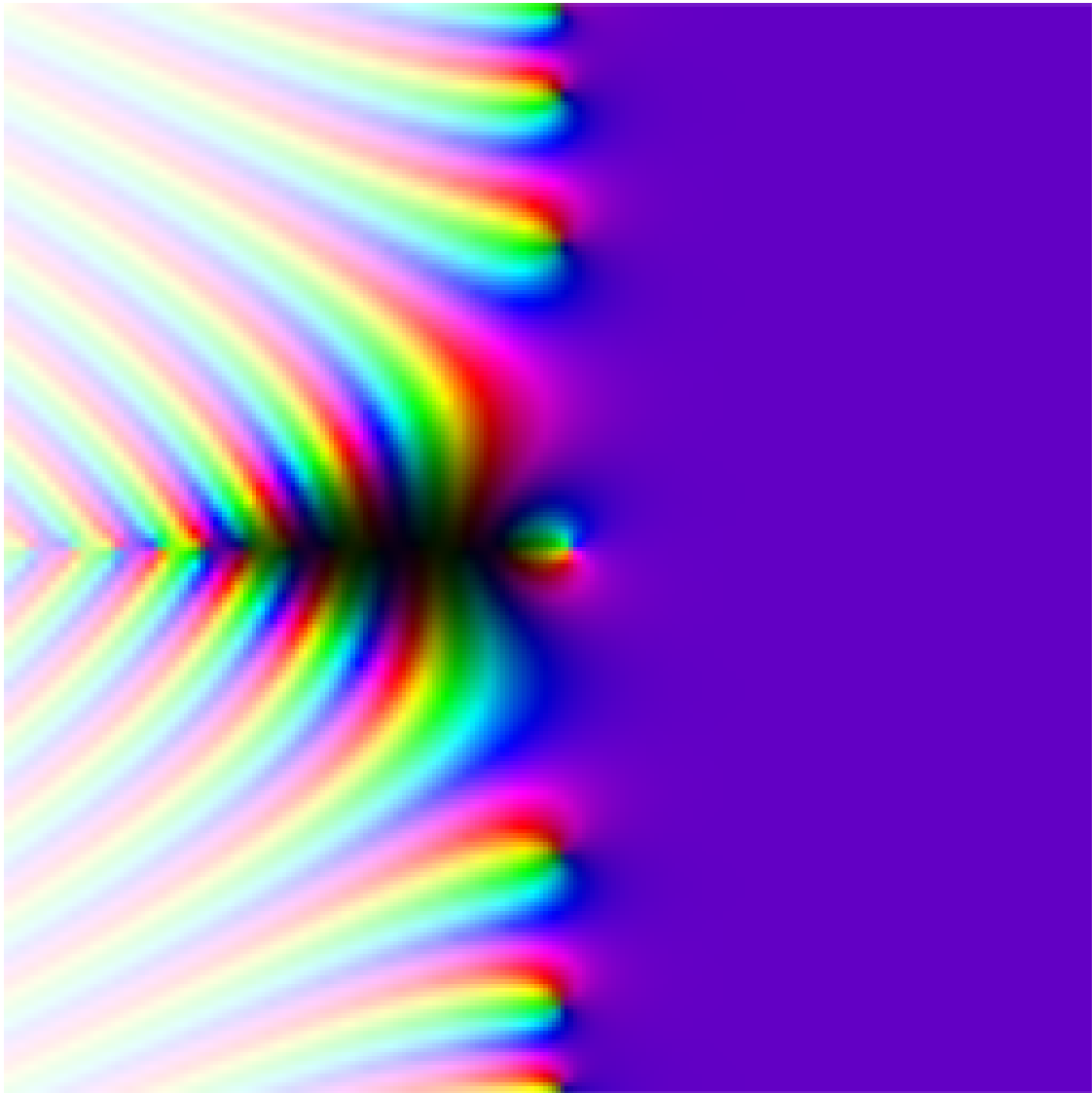




```
B = 50
i = CDF(I)
def f(z):
    return -i*zeta(z)
show(complex_plot(f, (-B,B),(-B,B), frame=False, axes=False, plot_points\
=100), svg=False, figsize=[3,3])
```

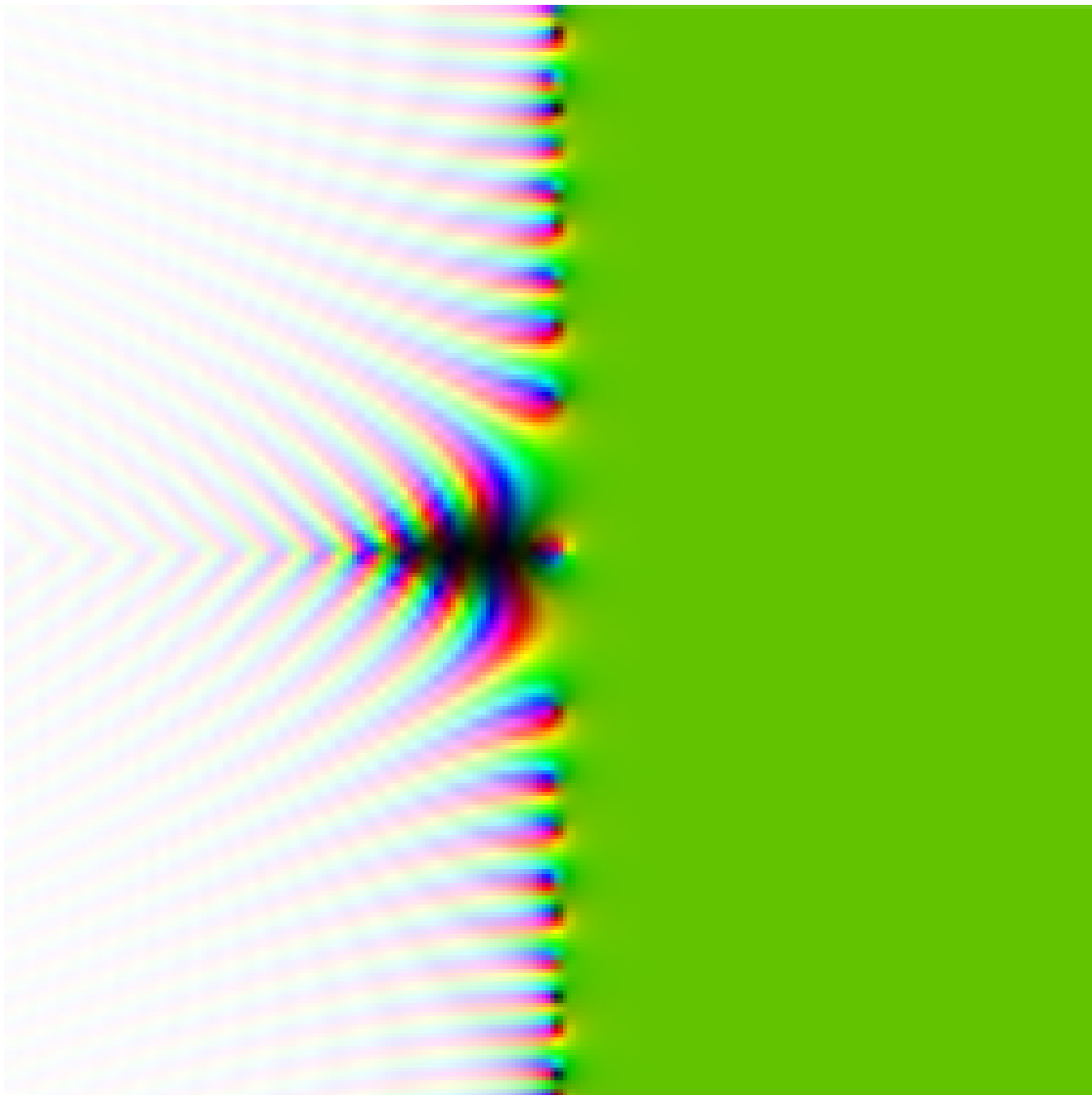


```
B = 25
i = CDF(I)
def f(z):
    return -i*zeta(z)
show(complex_plot(f, (-B,B),(-B,B), frame=False, axes=False, plot_points\
=100), svg=False, figsize=[3,3])
```

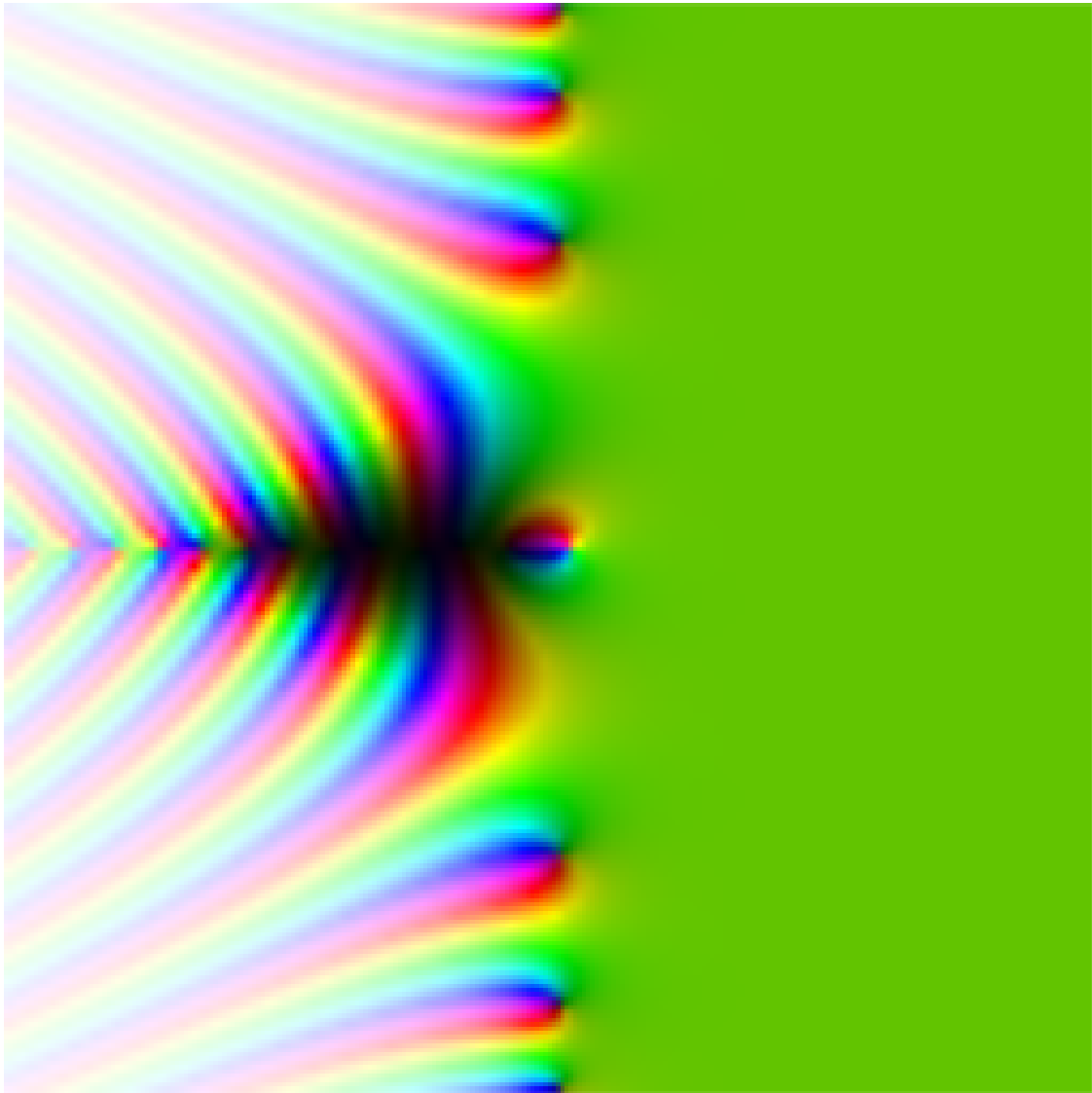


CPU time: 4.08 s, Wall time: 5.07 s

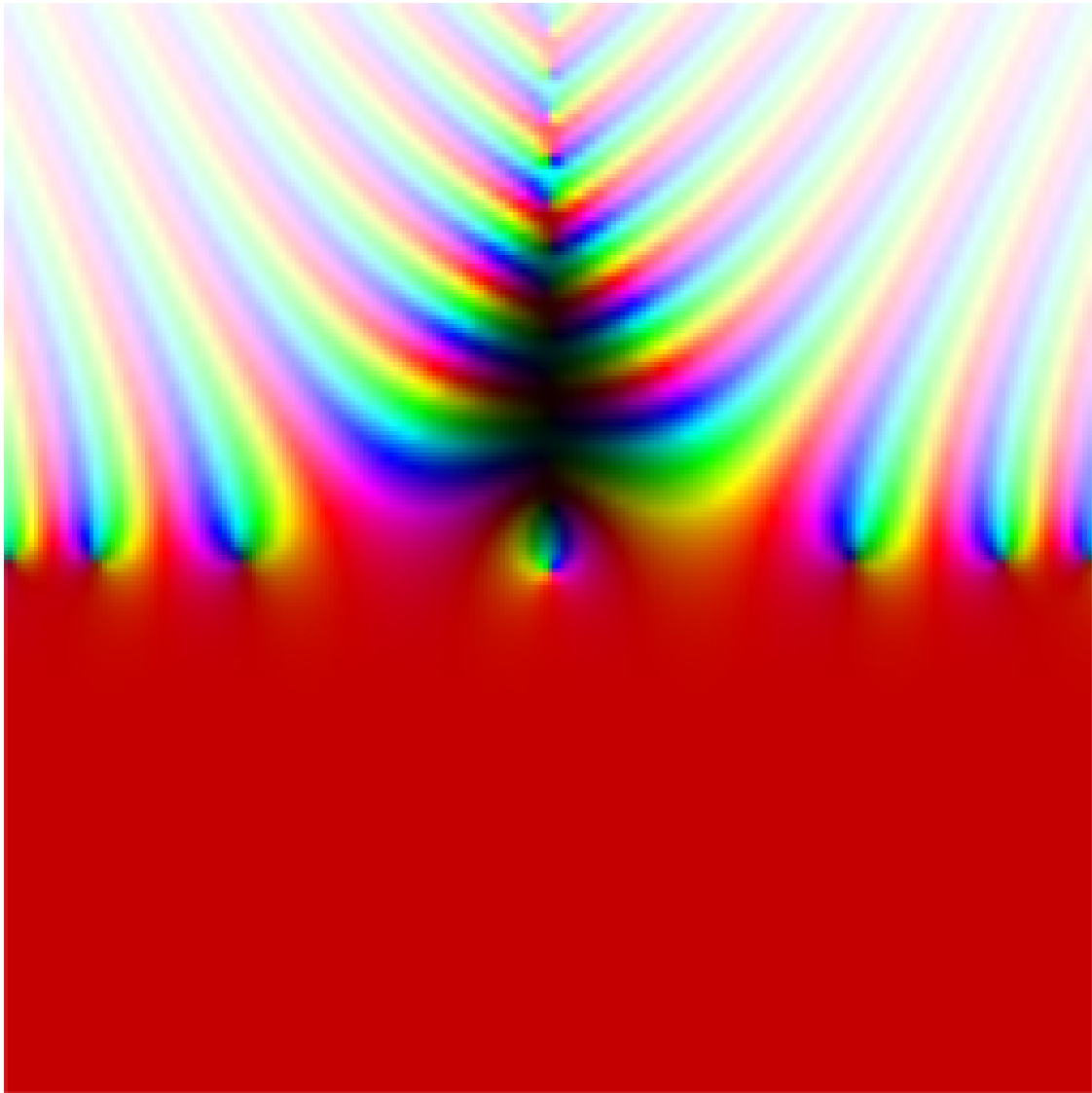
```
B = 50
i = CDF(I)
def f(z):
    return i*zeta(z)
show(complex_plot(f, (-B,B),(-B,B), frame=False, axes=False, plot_points\
=100), svg=False, figsize=[3,3])
```



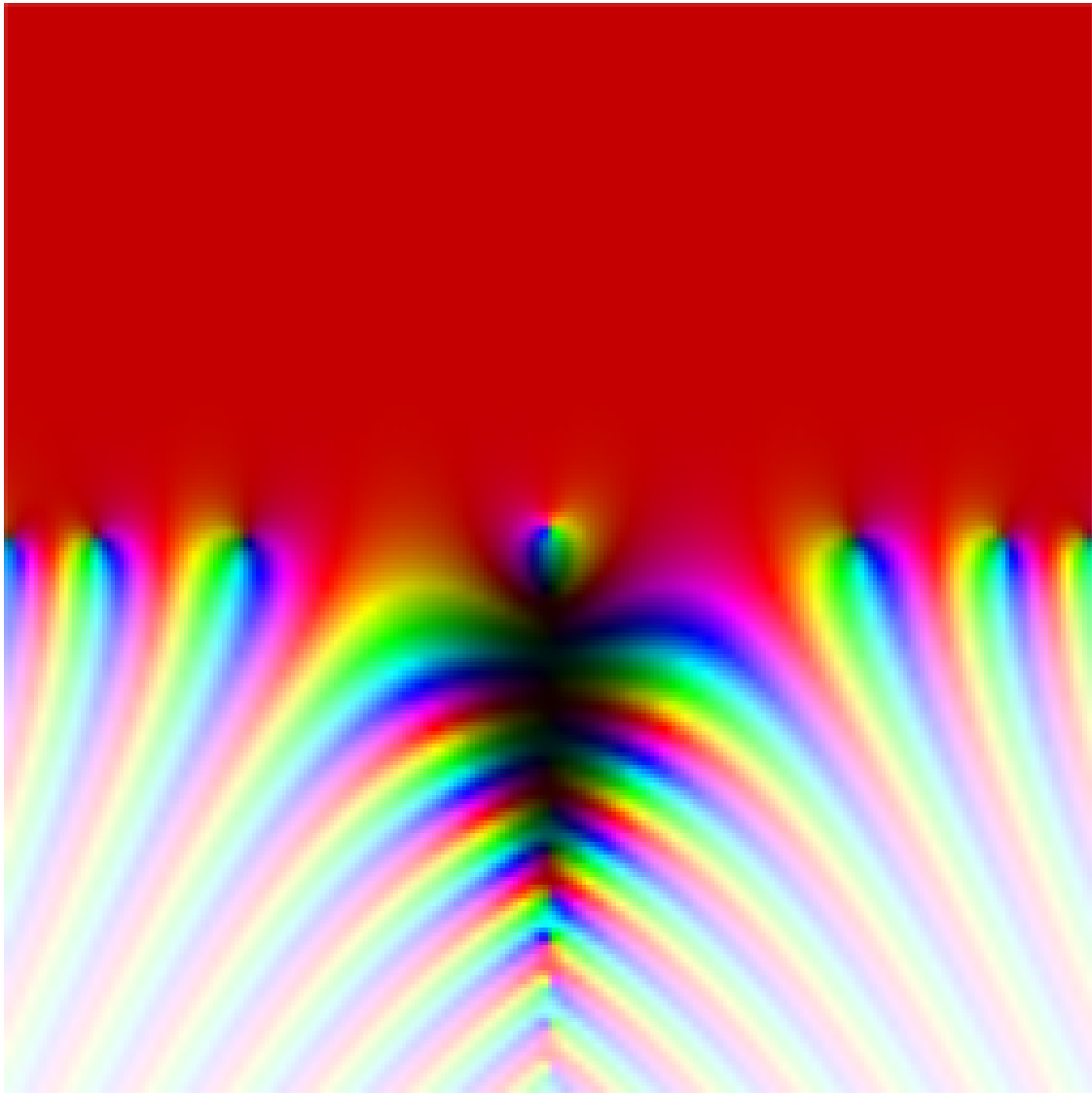
```
B = 25
i = CDF(I)
def f(z):
    return i*zeta(z)
show(complex_plot(f, (-B,B),(-B,B), frame=False, axes=False, plot_points\
    =100), svg=False, figsize=[3,3])
```

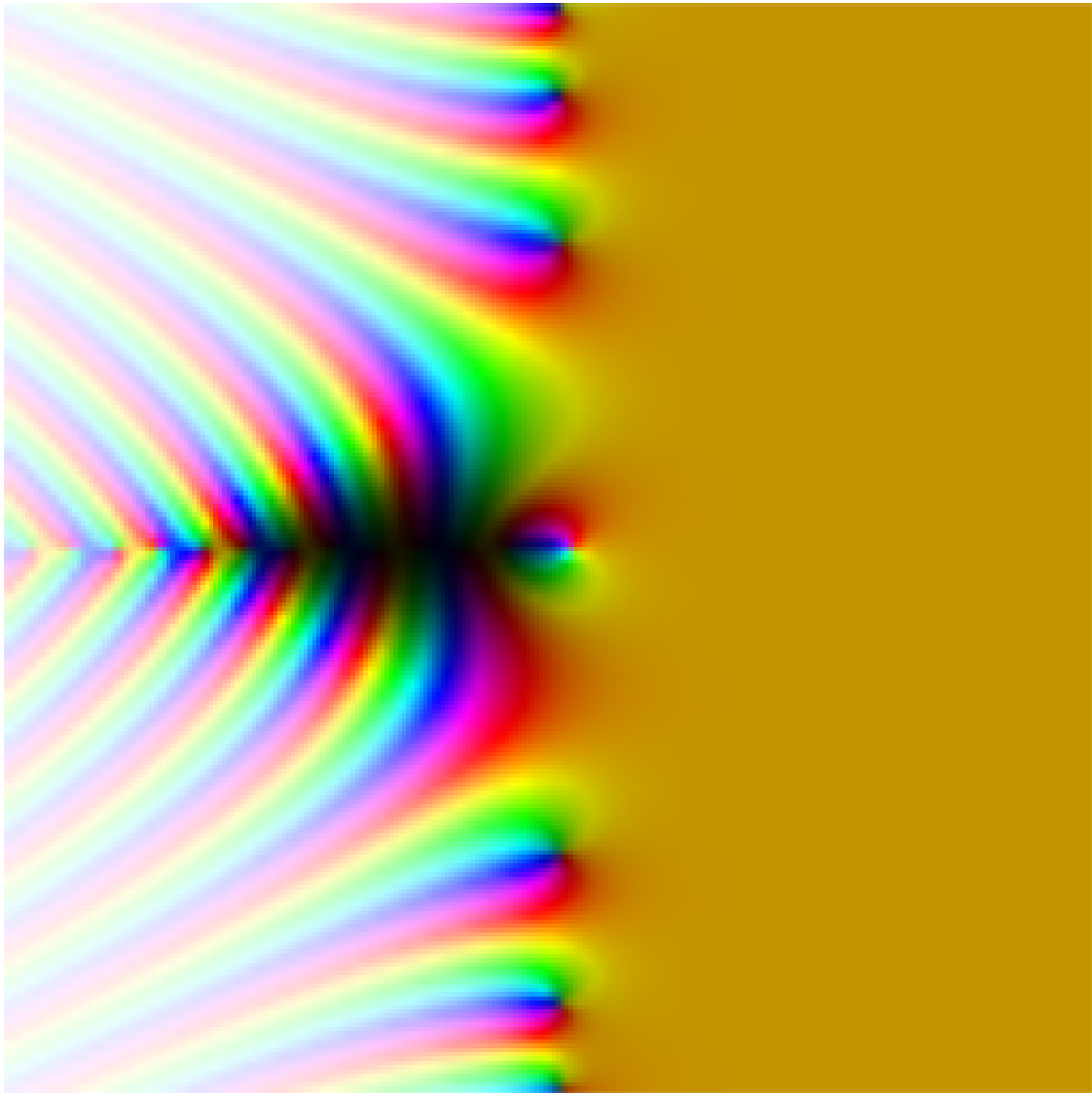
```
B = 25
i = CDF(I)
def f(z):
    return zeta(i*z)
show(complex_plot(f, (-B,B),(-B,B), frame=False, axes=False, plot_points\
=100), svg=False, figsize=[3,3])
```



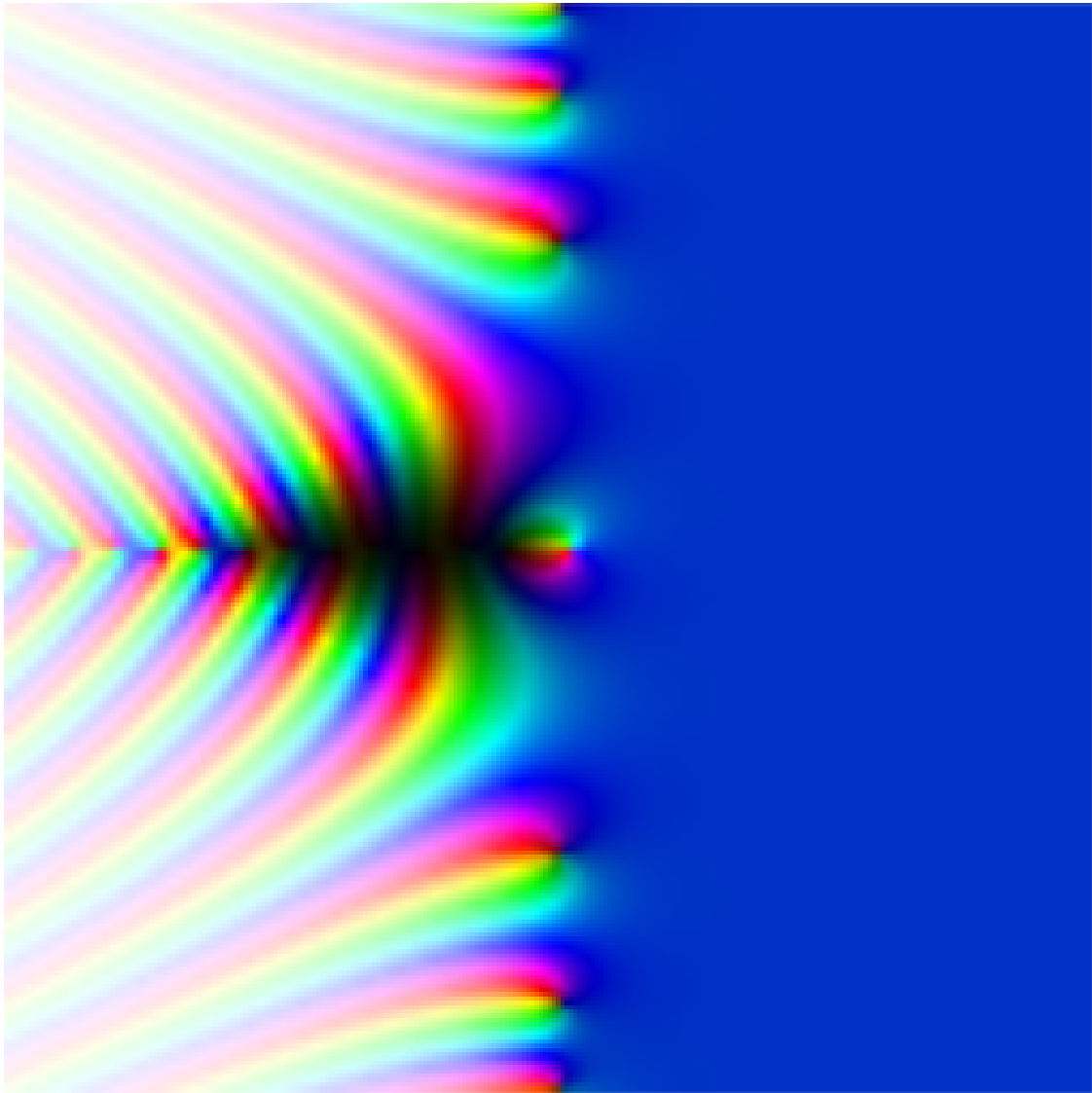
```
B = 25
i = CDF(I)
def f(z):
    return zeta(-i*z)
show(complex_plot(f, (-B,B),(-B,B), frame=False, axes=False, plot_points\
=100), svg=False, figsize=[3,3])
```



```
B = 25
alpha = sqrt(CDF(I))
def f(z):
    return alpha*zeta(z)
show(complex_plot(f, (-B,B),(-B,B), frame=False, axes=False, plot_points\
=100), svg=False, figsize=[3,3])
```



```
B = 25
alpha = sqrt(CDF(I))
def f(z):
    return -alpha*zeta(z)
show(complex_plot(f, (-B,B),(-B,B), frame=False, axes=False, plot_points\
=100), svg=False, figsize=[3,3])
```



```
B = 50
alpha = sqrt(CDF(I))
def f(z):
    return alpha*zeta(z)
show(complex_plot(f, (-B,B),(-B,B), frame=False, axes=False, plot_points\
=100), svg=False, figsize=[3,3])
```

