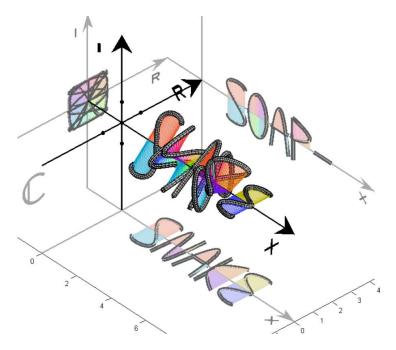


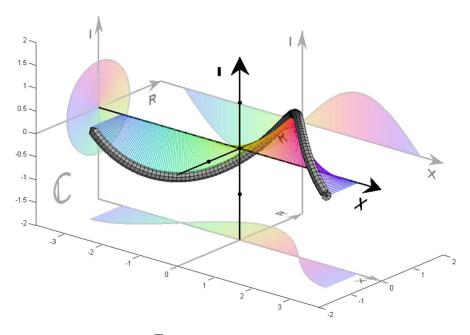
Visualizing complex-valued 1D functions

Sometimes two separate plots of the real and the imaginary part of a complex-valued function, may not quite reveal the actual complex dynamics, such as visualized below:

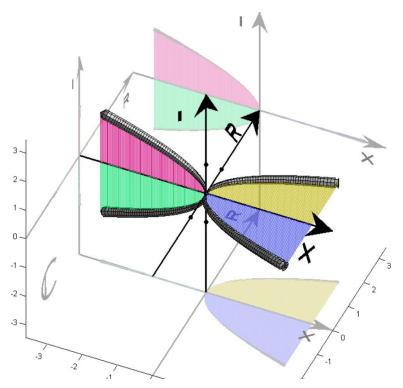


The script **soapSnake.m** visualizes a complex valued function in 3D, in combination with the real projection, the imaginary projection, and the projection in the complex plane.

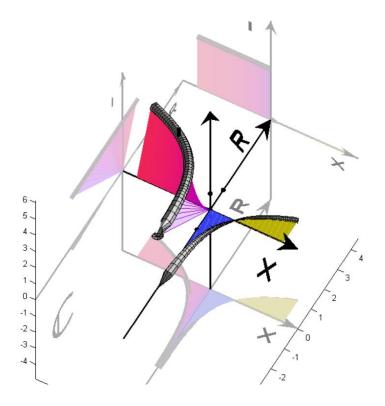
Example 1: Euler's formula f(x) = exp(ix) = cos(x) + i sin(x)



Example 2: $f(x) = \pm \sqrt{x}$



Example 3: f(x) = log(x)



Example 4: $f(x) = x^x$

