

# Supplemental material

## A Coefficients, gain and phase shift functions

Figure 1: Coefficients, gain and phase shift functions for the Linear-Constant (LC) filter with  $I/C = 3.5$ .

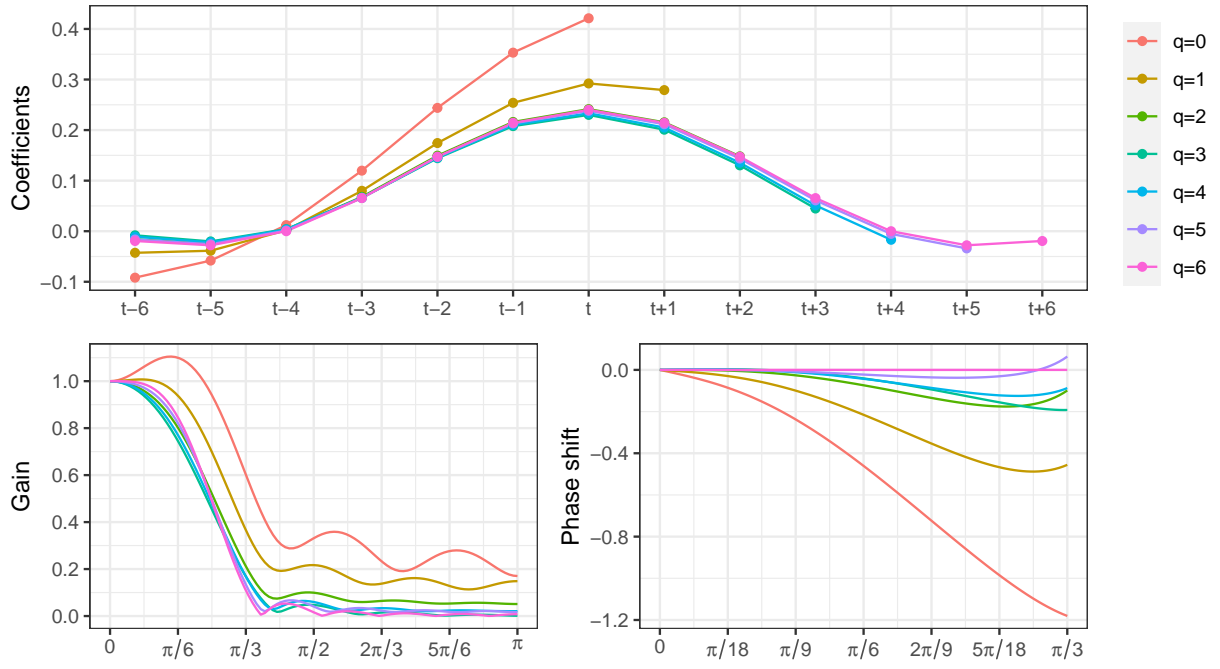


Figure 2: Coefficients, gain and phase shift functions for the Quadratic-Linear (QL) filter with  $I/C = 3.5$ .

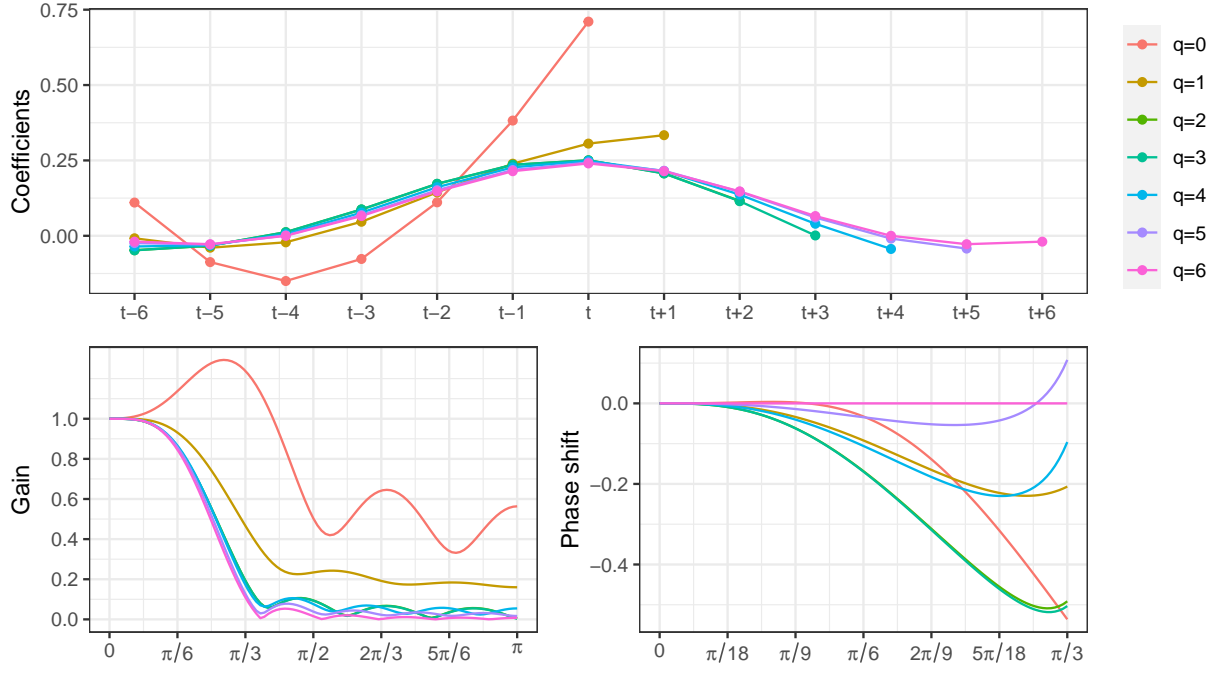


Figure 3: Coefficients, gain and phase shift functions for the Cubic-Quadratic (CQ) filter with  $I/C = 3.5$ .

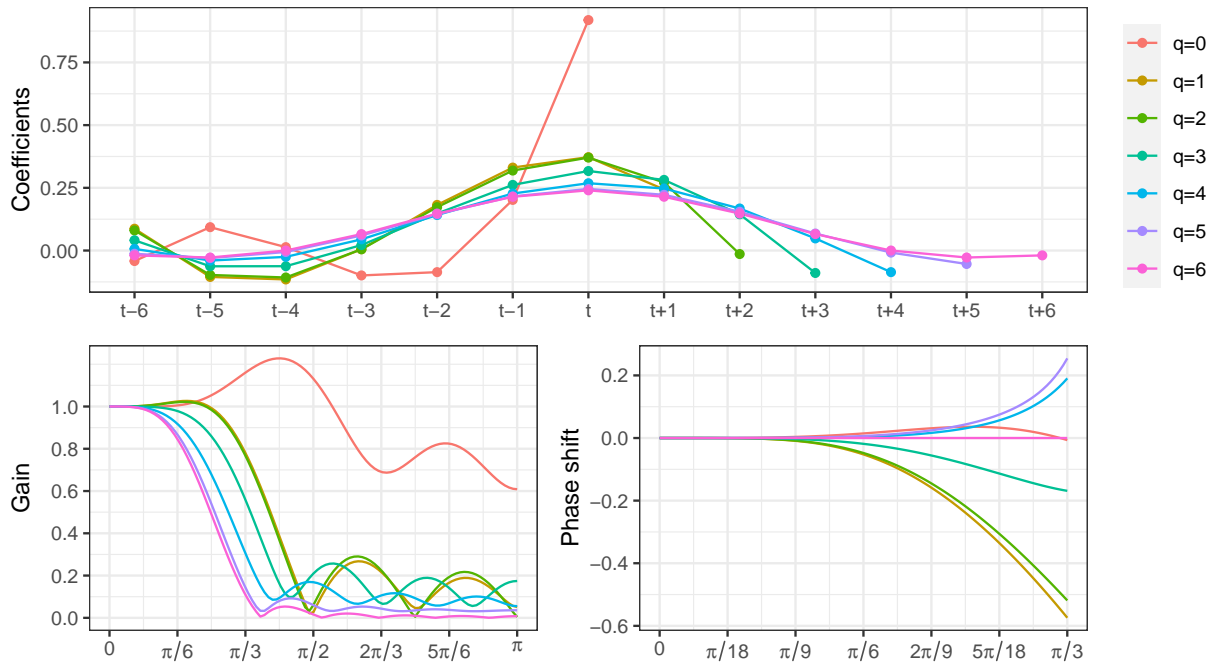


Figure 4: Coefficients, gain and phase shift functions for the direct asymmetric filter (DAF).

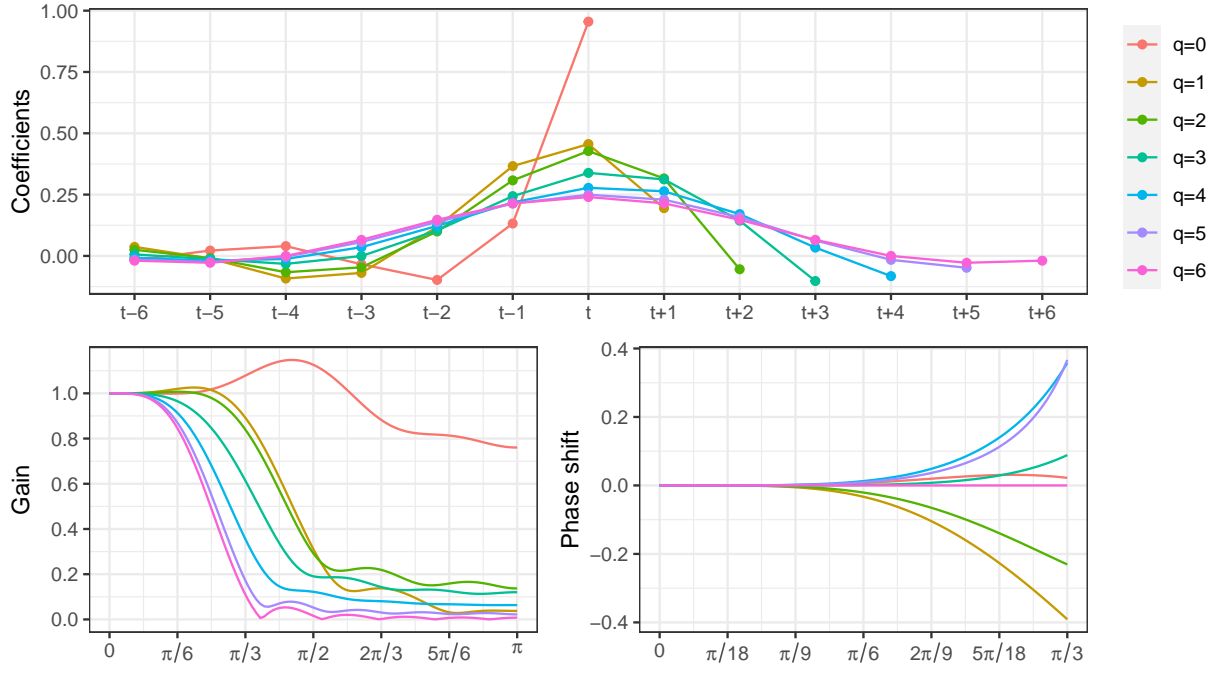


Figure 5: Coefficients, gain and phase shift functions for the Linear-Constant (LC) filter with  $I/C = 3.5$  and a nearest neighbour bandwidth.

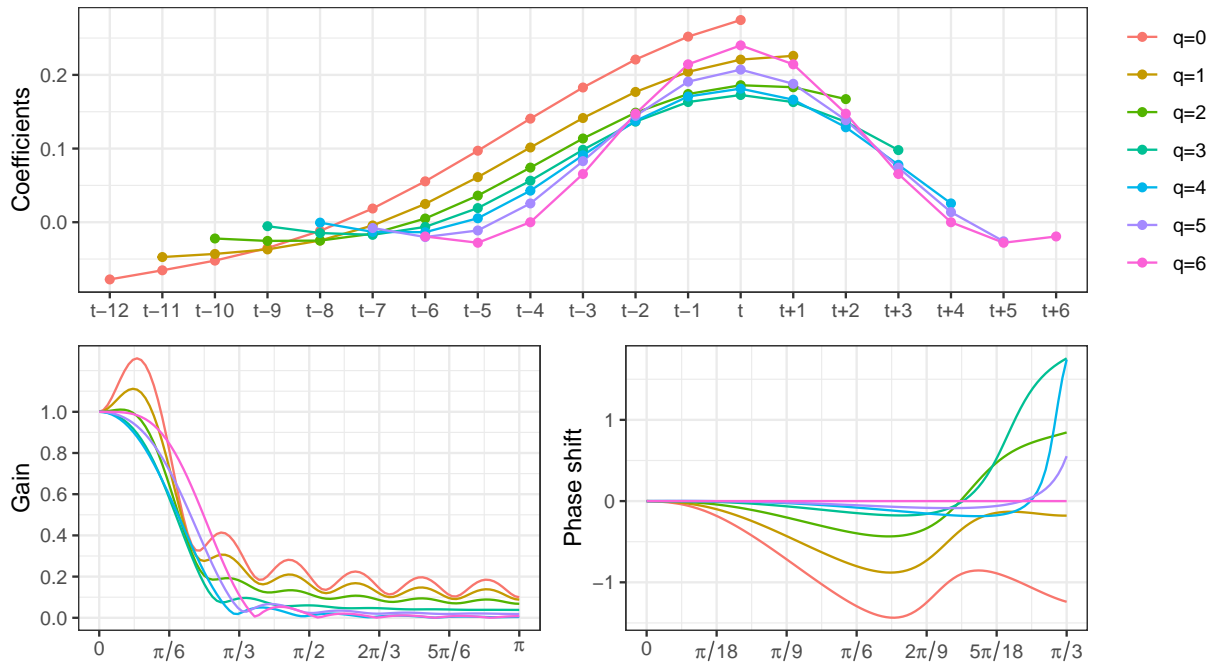


Figure 6: Coefficients, gain and phase shift functions for the Quadratic-Linear (QL) filter with  $I/C = 3.5$  and a nearest neighbour bandwidth.

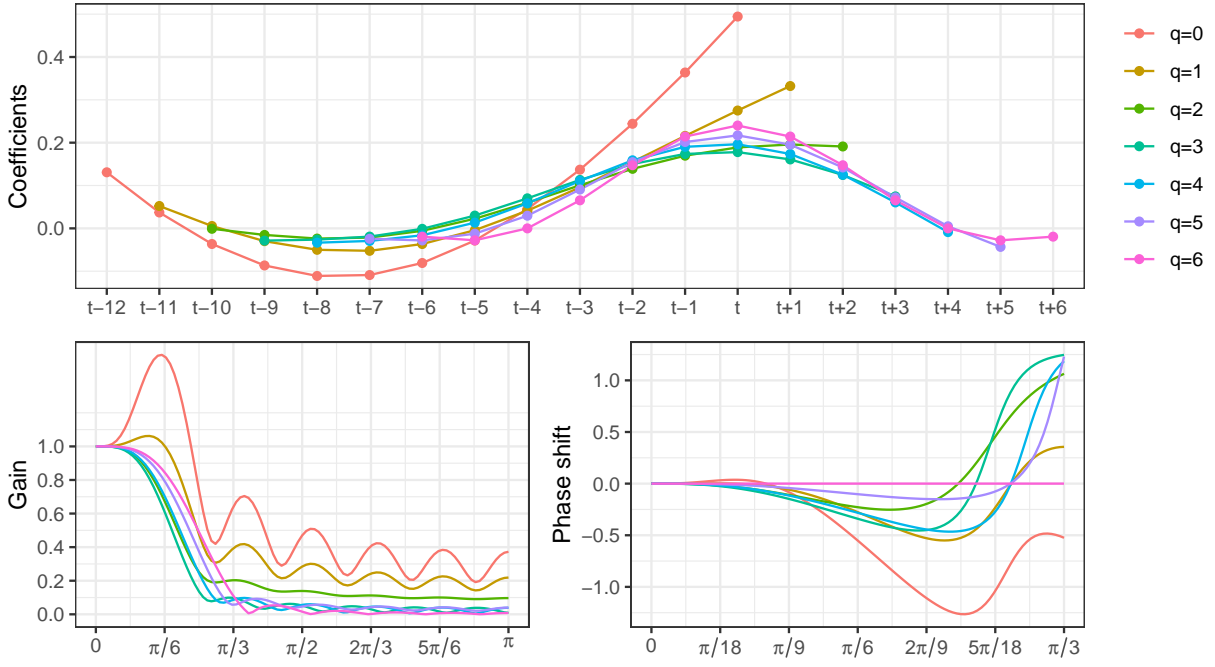


Figure 7: Coefficients, gain and phase shift functions for the Cubic-Quadratic (CQ) filter with  $I/C = 3.5$  and a nearest neighbour bandwidth.

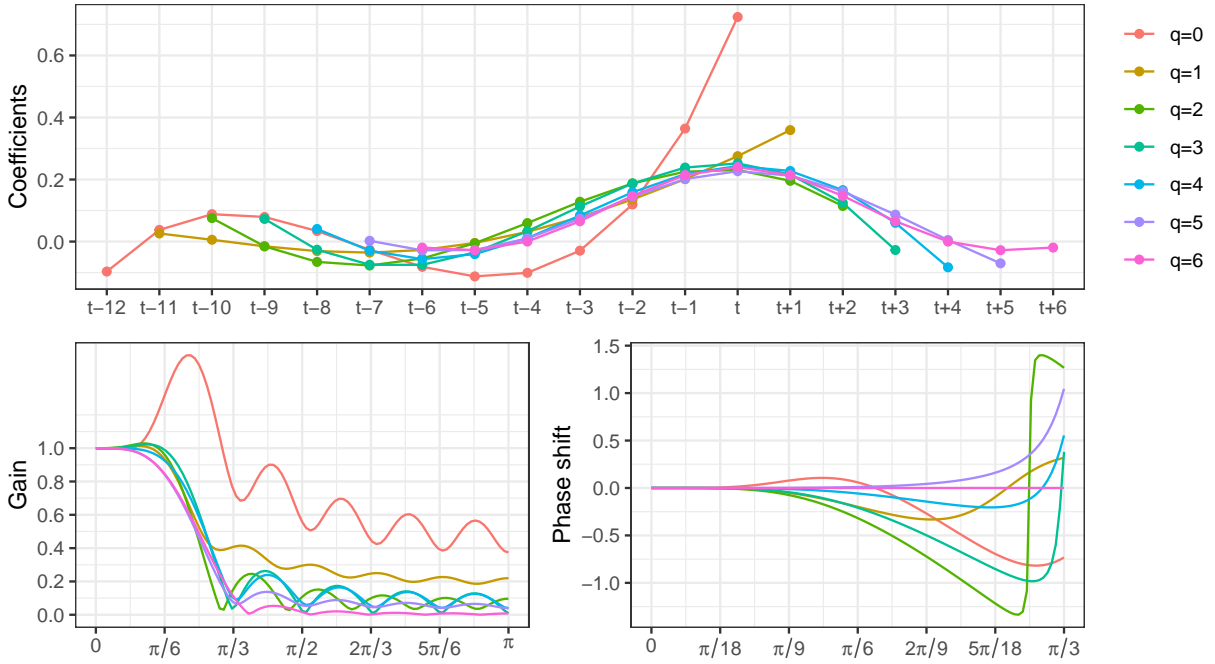


Figure 8: Coefficients, gain and phase shift functions for the direct asymmetric filter (DAF) with a nearest neighbour bandwidth.

