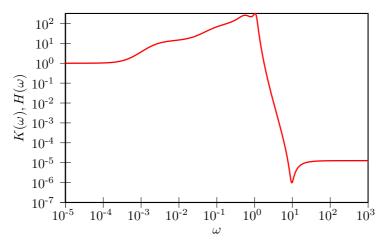
GENERALIZED LANGEVIN EQUATION ANALYTICS

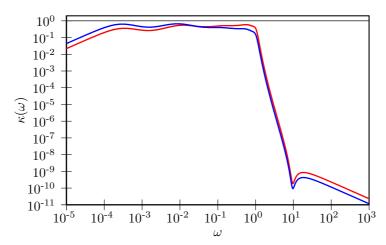
• Drift matrix A_p :

```
1.1571 \times 10^{-08}
                3.7285 \times 10^{-01}
                                            4.9072 \times 10^{-02}
                                                                         5.1040 \times 10^{-03}
                                                                                                   -2.1002{\times}10^{-03}
                                                                                                                               5.1567 \times 10^{-04}
                                                                                                                                                            2.1117 \times 10^{-03}
                                                                                                    1.0730 \times 10^{-02}
                2.5948\!\times\!10^{-08}
                                                                         7.7887 \times 10^{-01}
                                                                                                                               1.9689{\times}10^{-02}
                                                                                                                                                            1.3088 \times 10^{-02}
                                           1.0612 \times 10^{-01}
              -7.7887{\times}10^{-01}
                                          -1.1044{\times}10^{-01}
                                                                                                                               7.1483{\times}10^{-02}
                                            5.9816 \times 10^{-04}
                                                                                                                               5.5766 \times 10^{-02}
                                           -2.8164 \times 10^{-02}
```

- Fluctuation-Dissipation theorem is enforced, $C_p = k_B T$
- Memory kernel FT, $K(\omega)/K(0) = H(\omega)/H(0)$



• Sampling efficiency, for q^2 and $p^2 + \omega^2 q^2$:



• Free-particle diffusion coeff. (mD/k_BT) : $1.0954 \times 10^{+03}$