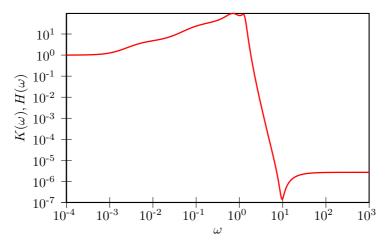
GENERALIZED LANGEVIN EQUATION ANALYTICS

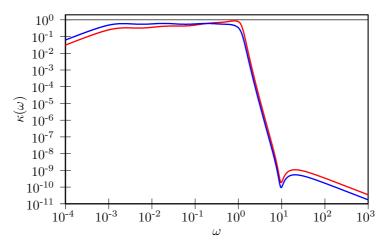
• Drift matrix A_p :

```
1.7359 \times 10^{-08}
                                                                                                    -5.5160 \times 10^{-03}
                6.2186 \times 10^{-01}
                                             8.4577 \times 10^{-02}
                                                                        -3.1824 \times 10^{-04}
                                                                                                                                   3.5061 \times 10^{-03}
                                                                                                                                                                5.0961 \times 10^{-04}
                                             6.8673\!\times\!10^{-02}
                1.0515{\times}10^{-08}
                                                                         1.6156 \times 10^{-02}
                                                                                                      9.0460 \times 10^{-01}
                                                                                                                                                             -1.6595 \times 10^{-02}
                                                                                                                                 -9.2327{\times}10^{-03}
                                                                                                                                                                1.4929\!\times\!10^{-01}
                                          -1.0946{\times}10^{-02}
                                                                                                    -8.5030 \times 10^{-03}
                                                                                                                                                              -1.4295 \times 10^{-02}
                                          -1.0805 \times 10^{-01}
                                                                                                                                                                1.3966 \times 10^{-02}
                                                                         8.5030 \times 10^{-03}
                                                                                                      4.4476{\times}10^{-04}
                                                                                                                                   6.8654 \times 10^{-01}
                                                                                                                                   7.9984 \times 10^{-03}
                                                                                                                                                                1.0638 \times 10^{+00}
                                           -2.7616 \times 10^{-01}
                                                                          1.8472{\times}10^{-01}
                                                                                                    -6.8654 \times 10^{-01}
                                          -1.4929{\times}10^{-01}
                                                                          1.4295 \times 10^{-02}
                                                                                                                                 -1.0638\!\times\!10^{+00}
                                                                                                                                                                1.0402 \times 10^{+00}
```

- 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) : $1.5620 \times 10^{+02}$