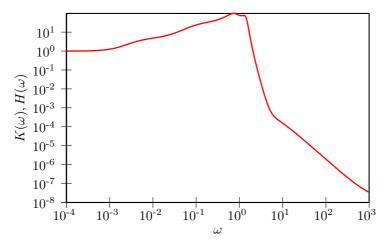
GENERALIZED LANGEVIN EQUATION ANALYTICS

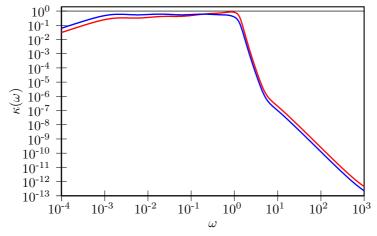
• Drift matrix A_p :

```
9.9996 \times 10^{-11}
                6.4518 \times 10^{-01}
                                             9.2950 \times 10^{-02}
                                                                        -8.0344 \times 10^{-03}
                                                                                                      7.7804 \times 10^{-03}
                                                                                                                                   2.2726 \times 10^{-02}
                                                                                                                                                             -7.1095 \times 10^{-06}
                                             8.9447 \times 10^{-02}
                3.2906 \times 10^{-08}
                                                                         4.6398\!\times\!10^{-02}
                                                                                                      9.8108\!\times\!10^{-01}
                                                                                                                                 -9.4038{	imes}10^{-02}
                                                                                                                                                             -6.3877 \times 10^{-02}
                                                                                                                                   2.6863 \times 10^{-01}
                                                                                                                                                                1.2936\!\times\!10^{-01}
                                                                                                                                                              -3.1098 \times 10^{-02}
                                                                                                                                 -2.0236{\times}10^{-01}
                                          -1.2515{	imes}10^{-01}
                                                                         1.3770 \times 10^{-02}
                                                                                                                                   7.6390 \times 10^{-01}
                                                                                                                                                                1.6789 \times 10^{-02}
                                                                                                      5.1626 \times 10^{-03}
                                                                          2.0236 \times 10^{-01}
                                                                                                    -7.6390 \times 10^{-01}
                                                                                                                                                                1.0269 \times 10^{+00}
                                           -2.6863 \times 10^{-01}
                                                                                                                                   2.4216\!\times\!10^{-01}
                                          -1.2936{\times}10^{-01}
                                                                          3.1098 \times 10^{-02}
                                                                                                                                                                9.4857 \times 10^{-01}
```

- 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) : $1.5517 \times 10^{+02}$