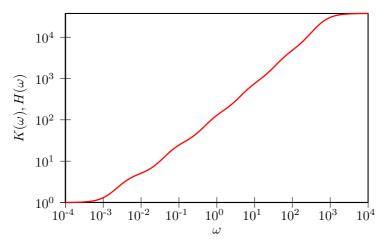
GENERALIZED LANGEVIN EQUATION ANALYTICS

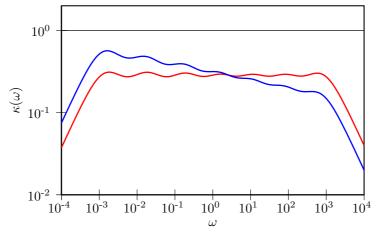
• Drift matrix A_p :

```
2.0035 \times 10^{+02}
                                                                                                                                                            3.0879 \times 10^{+02}
               1.1952 \times 10^{-02}
                                         -1.5016 \times 10^{-01}
                                                                        7.7803{\times}10^{-01}
                                                                                                  -4.7154{\times}10^{+00}
                                                                                                                              -3.3694 \times 10^{+01}
                                         2.1648 \times 10^{-03}
               2.9730 \times 10^{-03}
                                                                       8.3897 \times 10^{-03}
                                                                                                                                                          -2.7032{\times}10^{-02}
                                                                                                    3.7184 \times 10^{-02}
                                                                                                                             -5.6000\!\times\!10^{-02}
                                                                                                                                                            1.2180\!\times\!10^{-01}
                                         -4.5383{\times}10^{-02}
                                                                                                                                                          -1.6353 \times 10^{-01}
                                                                                                    6.5666\!\times\!10^{+00}
                                                                                                                                5.3979 \times 10^{-02}
                                           2.8879 \times 10^{-01}
                                                                                                  -5.3979 \times 10^{-02}
                                                                     -7.9944 \times 10^{-02}
                                                                                                                                5.5800 \times 10^{+01}
                                                                    -1.2180\!\times\!10^{-01}
                                           3.9104 \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): $1.8847 \times 10^{+02}$