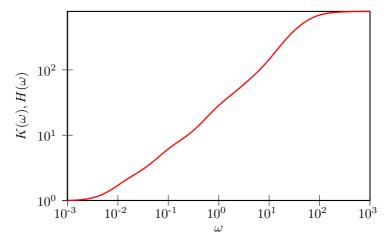
GENERALIZED LANGEVIN EQUATION ANALYTICS

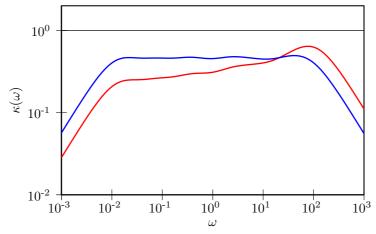
• Drift matrix A_p :

```
5.5894 \times 10^{+01}
                1.6570 \times 10^{-03}
                                                                                                                              1.8054\!\times\!10^{+01}
                                           3.0896 \times 10^{-02}
                                                                      -6.6266\!\times\!10^{-01}
                                                                                                  3.3237 \times 10^{+00}
                                                                                                                                                           4.0791{\times}10^{+01}
                                                                        6.6174{\times}10^{-02}
                                                                                                                                                           1.5487 \times 10^{-01}
                3.8468 \times 10^{-03}
                                        4.7167 \times 10^{-03}
                                                                                                  1.0557{\times}10^{-01}
                                                                                                                           -8.1400 \times 10^{-02}
                                                                        1.2921 \times 10^{-01}
                                                                                                                            2.5699 \times 10^{-01}
                                                                                                                                                           1.3639{\times}10^{-02}
                                                                                                  4.9780 \times 10^{-01}
                                                                                                                           -3.1597{\times}10^{-01}
                                                                                                                                                         -3.6135 \times 10^{-01}
                                                                                                  3.5633 \times 10^{+00}
                                                                                                                            -4.8541 \times 10^{-01}
                                                                                                                                                         -1.8288 \times 10^{-01}
                                                                                                                              1.9425 \times 10^{+01}
                                                                        3.1597 \times 10^{-01}
                                                                                                  4.8541{\times}10^{-01}
                                                                        3.6135 \times 10^{-01}
                                                                                                                            -1.3904{\times}10^{+00}
                                                                                                                                                           4.9481{\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): $1.4261 \times 10^{+01}$