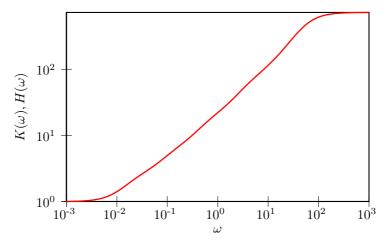
GENERALIZED LANGEVIN EQUATION ANALYTICS

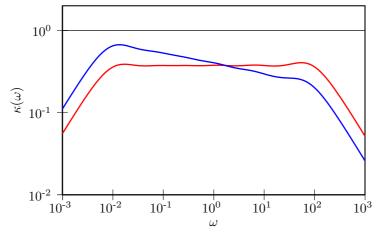
• Drift matrix A_p :

```
2.5997 \times 10^{+01}
                                                                                                                                                          3.1663 \times 10^{+01}
            -5.2665 \times 10^{-02}
                                          1.7079 \times 10^{-01}
                                                                      5.4628 \times 10^{-01}
                                                                                                  2.5711 \times 10^{+00}
                                                                                                                            -4.9578{\times}10^{+00}
               1.4716 \times 10^{-02}
                                                                      1.9422 \times 10^{-02}
                                       -8.1863 \times 10^{-03}
                                                                                                                                                          5.4138 \times 10^{-02}
                                                                                               -7.3977 \times 10^{-02}
                                                                                                                           -1.0188 \times 10^{-01}
                                                                                                                              3.3527 \times 10^{-02}
                                        -2.4952{\times}10^{-02}
                                        -2.0025 \times 10^{-02}
                                                                                                                            -1.4920 \times 10^{-02}
                                                                                                                                                          9.9960 \times 10^{-01}
                                                                     -9.9587 \times 10^{-02}
                                                                                                                              1.1942{\times}10^{+01}
                                           1.2017{\times}10^{-02}
                                                                       2.8358 \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): $2.7982 \times 10^{+01}$