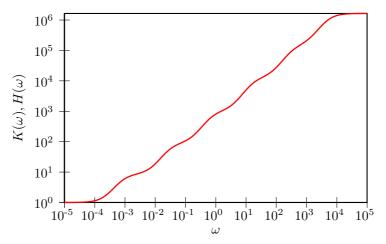
GENERALIZED LANGEVIN EQUATION ANALYTICS

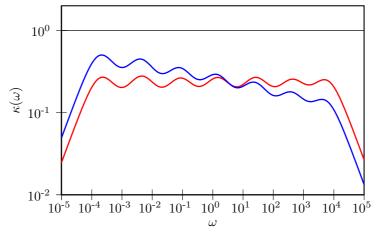
• Drift matrix A_p :

```
1.3377 \times 10^{+03}
                3.0902 \times 10^{-02}
                                             4.1429{\times}10^{-02}
                                                                       -6.7025{\times}10^{-01}
                                                                                                      1.1808 \times 10^{+01}
                                                                                                                                   1.7770×10<sup>+02</sup>
                                                                                                                                                                2.3246 \times 10^{+03}
                                           1.6033 \times 10^{-04}
                                                                         3.5952 \times 10^{-04}
                7.2148{\times}10^{-04}
                                                                                                                                                             -3.8477{\times}10^{-02}
                                                                                                   -5.6838{\times}10^{-03}
                                                                                                                                -5.6503{\times}10^{-03}
                                                                                                                                 -1.1368\!\times\!10^{-03}
                                                                                                                                                              -2.6163 \times 10^{-03}
                                                                                                                                 -1.9202 \times 10^{-02}
                                                                                                                                                                2.7912 \times 10^{-03}
                                                                                                                                                                4.4037×10<sup>-01</sup>
                                                                                                                                   2.8983\!\times\!10^{+02}
                                                                                                                                   4.4037\!\times\!10^{-01}
                                                                                                                                                                4.4292 \times 10^{+03}
```

- 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) : $1.2345 \times 10^{+03}$