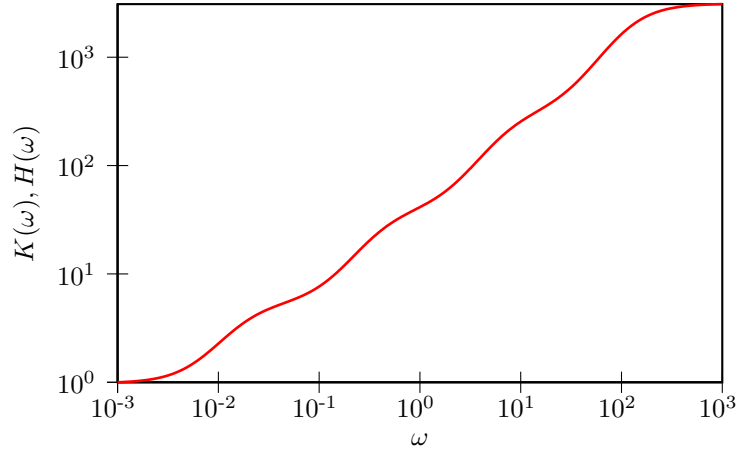


GENERALIZED LANGEVIN EQUATION ANALYTICS

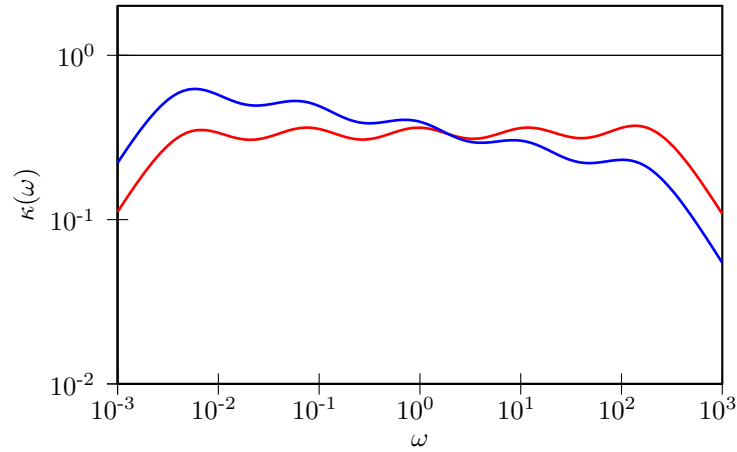
- Drift matrix A_p :

$$\begin{pmatrix} 5.5441 \times 10^{+01} & 1.8308 \times 10^{-01} & -3.7766 \times 10^{-01} & -5.1252 \times 10^{+00} & 7.4066 \times 10^{+01} \\ -1.7157 \times 10^{-01} & 3.1769 \times 10^{-03} & 6.4884 \times 10^{-02} & -4.4203 \times 10^{-02} & -1.9420 \times 10^{-01} \\ -6.1420 \times 10^{-01} & -6.4884 \times 10^{-02} & 3.6572 \times 10^{-01} & -2.0491 \times 10^{-01} & -1.9692 \times 10^{-01} \\ -5.8053 \times 10^{+00} & 4.4203 \times 10^{-02} & 2.0491 \times 10^{-01} & 6.3133 \times 10^{+00} & -4.2470 \times 10^{-01} \\ 7.1459 \times 10^{+01} & 1.9420 \times 10^{-01} & 1.9692 \times 10^{-01} & 4.2470 \times 10^{-01} & 1.0583 \times 10^{+02} \end{pmatrix}$$

- 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. ($mD/k_B T$): $5.7346 \times 10^{+01}$