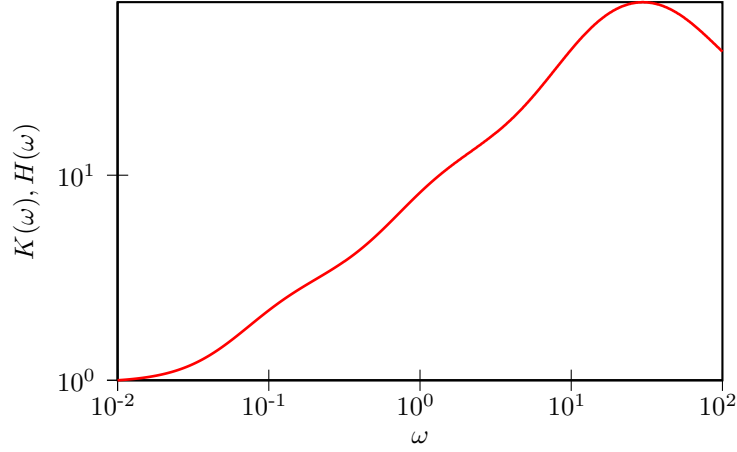


GENERALIZED LANGEVIN EQUATION ANALYTICS

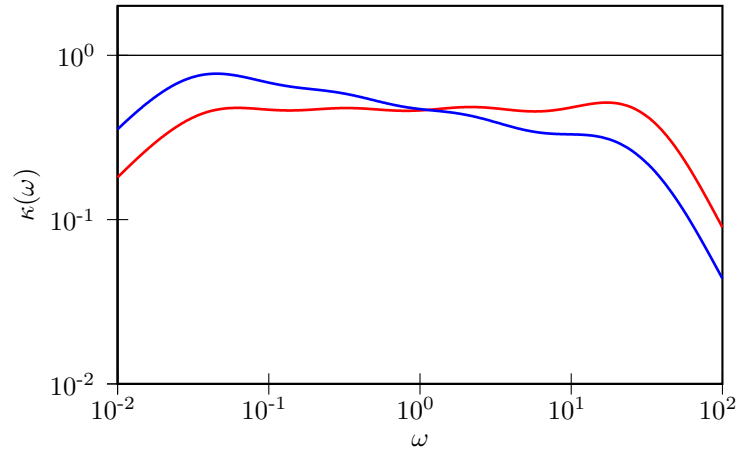
- Drift matrix A_p :

$$\begin{pmatrix} 2.2131 \times 10^{+00} & 1.5126 \times 10^{+00} & -3.4827 \times 10^{+00} & 4.9722 \times 10^{+00} & 3.1416 \times 10^{+01} \\ -1.5126 \times 10^{+00} & 9.7881 \times 10^{-08} & 4.6763 \times 10^{-01} & 3.3380 \times 10^{-01} & -5.0828 \times 10^{+00} \\ 2.1479 \times 10^{+00} & -4.6763 \times 10^{-01} & 8.0182 \times 10^{-01} & -1.6504 \times 10^{+00} & 5.9169 \times 10^{+00} \\ -5.9758 \times 10^{+00} & -3.3380 \times 10^{-01} & 1.6504 \times 10^{+00} & 9.9242 \times 10^{-01} & -2.6696 \times 10^{+01} \\ -1.1241 \times 10^{+01} & 5.0828 \times 10^{+00} & -5.9169 \times 10^{+00} & 2.6696 \times 10^{+01} & 7.2769 \times 10^{+01} \end{pmatrix}$$

- 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. ($mD/k_B T$): $9.4372 \times 10^{+00}$