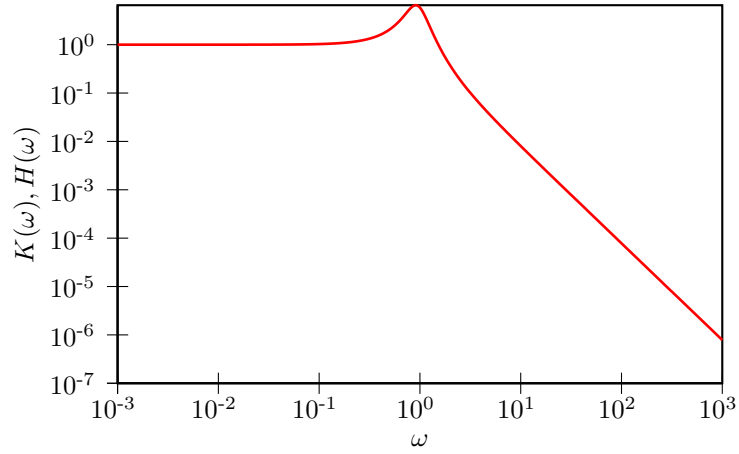


GENERALIZED LANGEVIN EQUATION ANALYTICS

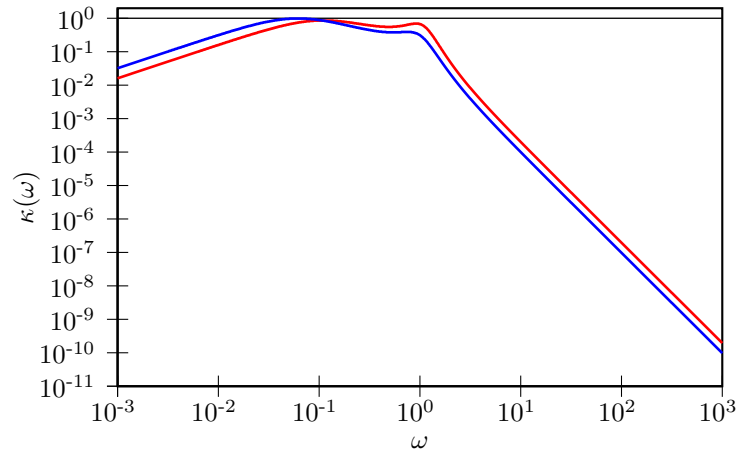
- Drift matrix A_p :

$$\begin{pmatrix} 1.0000 \times 10^{-10} & 4.7169 \times 10^{-01} & 4.3212 \times 10^{-01} \\ -4.7169 \times 10^{-01} & 5.0935 \times 10^{-02} & 9.3613 \times 10^{-01} \\ -4.3213 \times 10^{-01} & -9.3613 \times 10^{-01} & 4.6127 \times 10^{-01} \end{pmatrix}$$

- 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. ($mD/k_B T$): $8.0243 \times 10^{+00}$