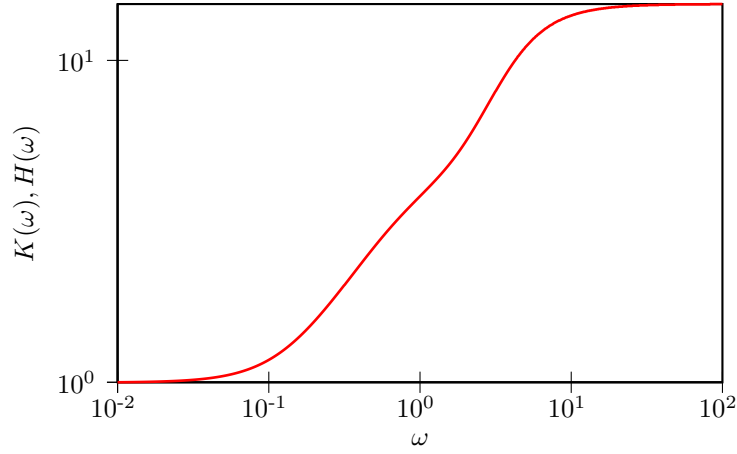


GENERALIZED LANGEVIN EQUATION ANALYTICS

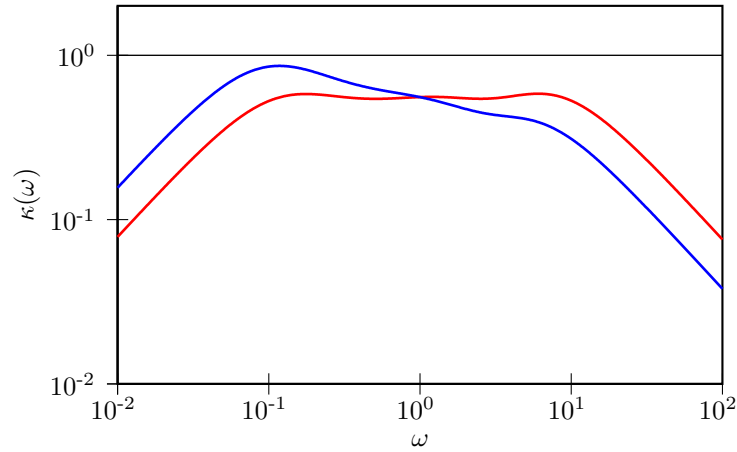
- Drift matrix A_p :

$$\begin{pmatrix} 3.8014 \times 10^{+00} & -1.4075 \times 10^{-01} & 4.0211 \times 10^{-01} & -4.2416 \times 10^{-02} & 3.1704 \times 10^{+00} \\ -2.8052 \times 10^{-01} & 2.1738 \times 10^{-01} & 6.8390 \times 10^{-02} & -5.1882 \times 10^{-02} & -1.4813 \times 10^{-02} \\ 6.8739 \times 10^{-01} & -6.8390 \times 10^{-02} & 5.8749 \times 10^{-01} & 1.3262 \times 10^{-01} & -2.5367 \times 10^{-02} \\ 7.1269 \times 10^{-01} & 5.1882 \times 10^{-02} & -1.3262 \times 10^{-01} & 2.7220 \times 10^{+00} & 1.3447 \times 10^{+00} \\ 3.2344 \times 10^{+00} & 1.4813 \times 10^{-02} & 2.5367 \times 10^{-02} & -1.3447 \times 10^{+00} & 3.3751 \times 10^{+00} \end{pmatrix}$$

- 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. ($mD/k_B T$): $3.9440 \times 10^{+00}$