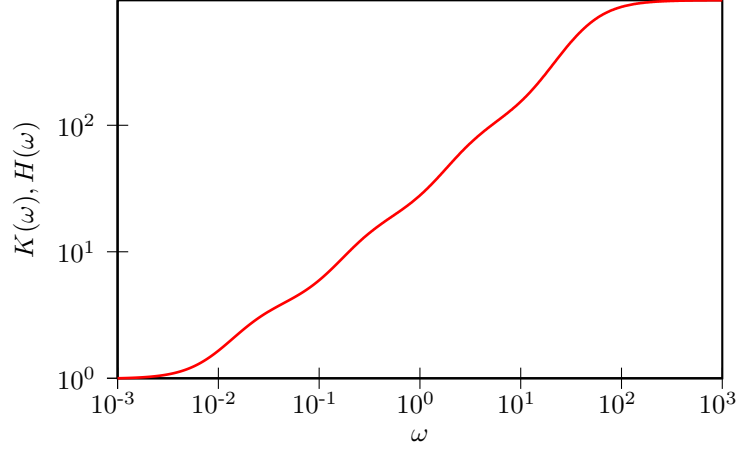


GENERALIZED LANGEVIN EQUATION ANALYTICS

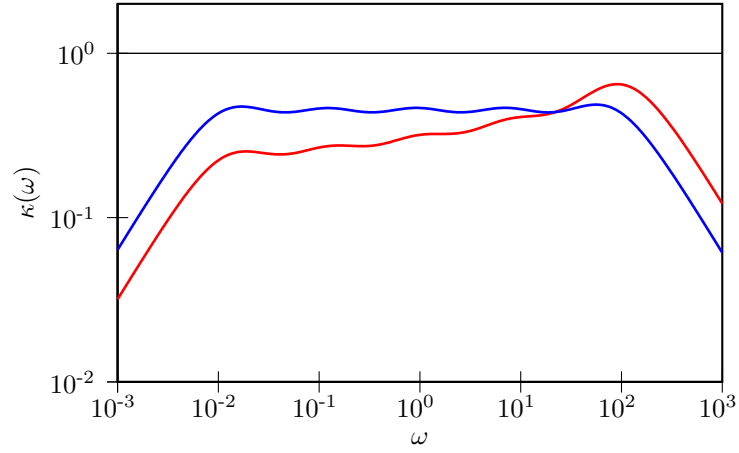
- Drift matrix A_p :

$$\begin{pmatrix} 6.1412 \times 10^{+01} & 4.9250 \times 10^{-02} & -1.4972 \times 10^{-01} & -3.8469 \times 10^{+00} & 4.6169 \times 10^{+01} \\ 6.5517 \times 10^{-04} & 5.8812 \times 10^{-03} & -5.1794 \times 10^{-02} & -7.2935 \times 10^{-02} & -1.4635 \times 10^{-02} \\ 1.1862 \times 10^{+00} & 5.1794 \times 10^{-02} & 2.5454 \times 10^{-01} & 2.3754 \times 10^{-02} & 4.4620 \times 10^{-01} \\ -4.0176 \times 10^{+00} & 7.2935 \times 10^{-02} & -2.3754 \times 10^{-02} & 2.8387 \times 10^{+00} & 8.7289 \times 10^{-02} \\ 4.5537 \times 10^{+01} & 1.4635 \times 10^{-02} & -4.4620 \times 10^{-01} & -8.7289 \times 10^{-02} & 3.8365 \times 10^{+01} \end{pmatrix}$$

- 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. ($mD/k_B T$): $1.5998 \times 10^{+01}$