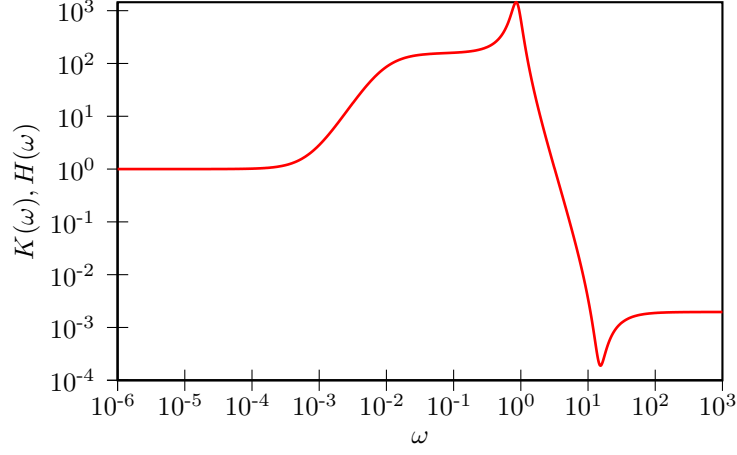


GENERALIZED LANGEVIN EQUATION ANALYTICS

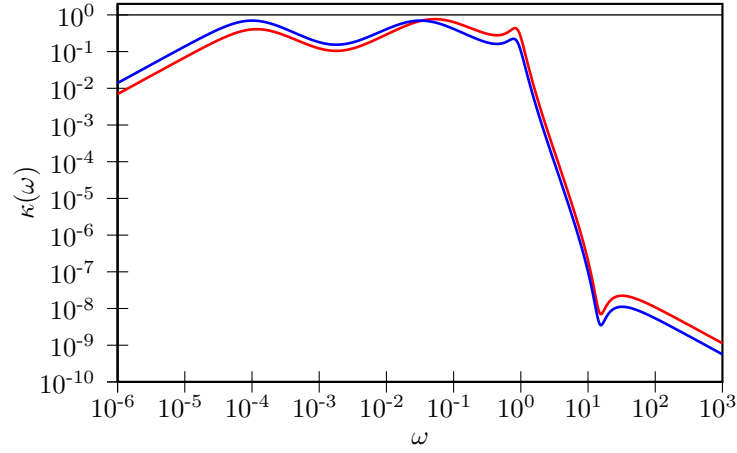
- Drift matrix A_p :

$$\begin{pmatrix} 5.6365 \times 10^{-07} & 5.5621 \times 10^{-02} & 3.1090 \times 10^{-01} & 1.3757 \times 10^{-01} & 3.9498 \times 10^{-04} \\ -5.5620 \times 10^{-02} & 5.2431 \times 10^{-06} & -2.2692 \times 10^{-02} & 1.2796 \times 10^{-01} & 9.9701 \times 10^{-03} \\ -3.1090 \times 10^{-01} & 2.2692 \times 10^{-02} & 5.5993 \times 10^{-05} & 7.5354 \times 10^{-01} & -6.1865 \times 10^{-01} \\ -1.3757 \times 10^{-01} & -1.2796 \times 10^{-01} & -7.5354 \times 10^{-01} & 2.3051 \times 10^{-04} & 2.8932 \times 10^{-01} \\ -2.0357 \times 10^{-03} & -9.9701 \times 10^{-03} & 6.1865 \times 10^{-01} & -2.8932 \times 10^{-01} & 1.2199 \times 10^{+00} \end{pmatrix}$$

- 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. ($mD/k_B T$): $3.4857 \times 10^{+03}$