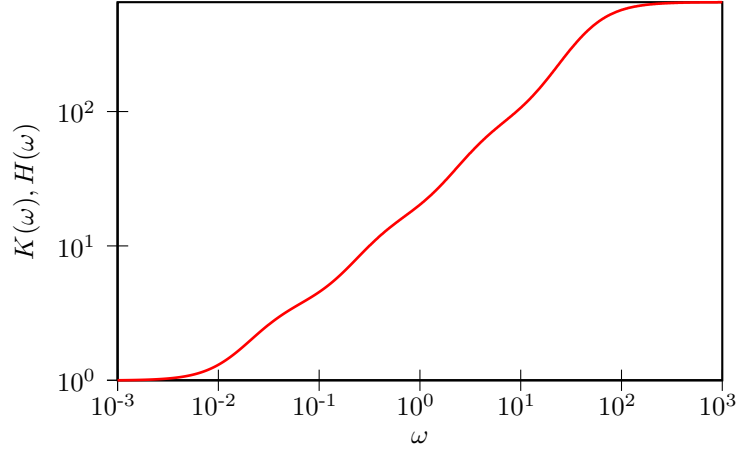


GENERALIZED LANGEVIN EQUATION ANALYTICS

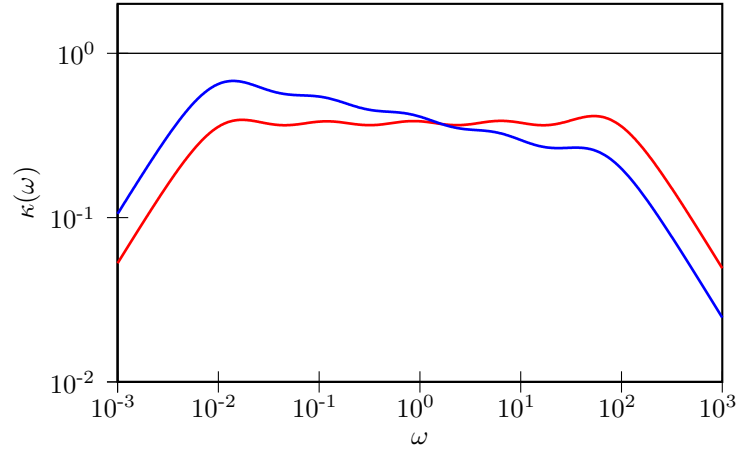
- Drift matrix A_p :

$$\begin{pmatrix} 2.4680 \times 10^{+01} & 3.6185 \times 10^{-02} & 1.5298 \times 10^{+00} & -4.8330 \times 10^{+00} & 3.0756 \times 10^{+01} \\ -3.6909 \times 10^{-02} & 1.1408 \times 10^{-05} & 9.5810 \times 10^{-02} & -2.6338 \times 10^{-02} & 5.6286 \times 10^{-02} \\ -1.9677 \times 10^{+00} & -9.5810 \times 10^{-02} & 1.8038 \times 10^{-01} & 6.8350 \times 10^{-01} & -1.3265 \times 10^{+00} \\ -1.3766 \times 10^{+00} & 2.6338 \times 10^{-02} & -6.8350 \times 10^{-01} & 3.5386 \times 10^{+00} & 1.5273 \times 10^{+00} \\ 2.8935 \times 10^{+01} & -5.6286 \times 10^{-02} & 1.3265 \times 10^{+00} & -1.5273 \times 10^{+00} & 4.1088 \times 10^{+01} \end{pmatrix}$$

- 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. ($mD/k_B T$): $2.6511 \times 10^{+01}$