

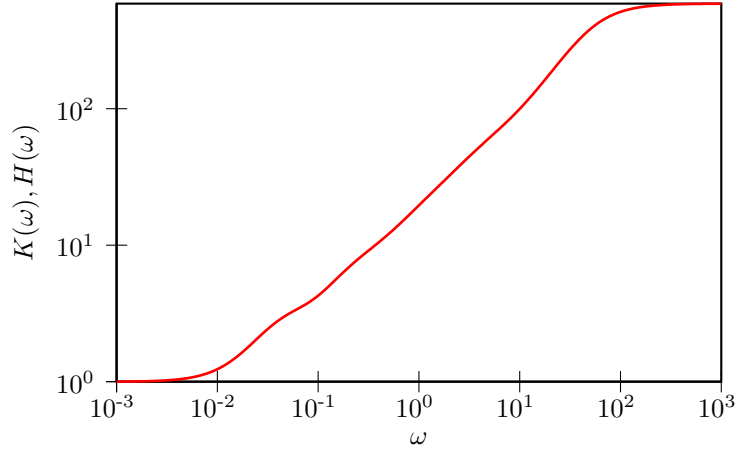
GENERALIZED LANGEVIN EQUATION ANALYTICS

- Drift matrix A_p :

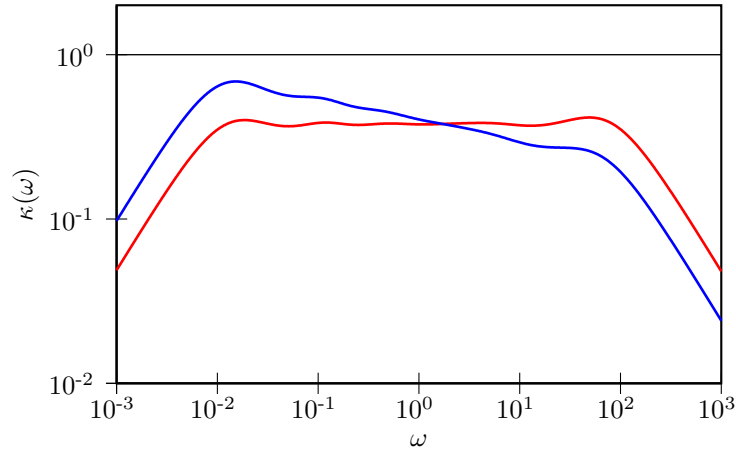
$2.4114 \times 10^{+01}$	-5.1604×10^{-02}	5.6487×10^{-02}	2.3505×10^{-01}	-7.1305×10^{-01}	$-2.2169 \times 10^{+00}$	$6.8519 \times 10^{+00}$	$2.7710 \times 10^{+01}$	-4.32
-2.5600×10^{-02}	3.9543×10^{-02}	-1.0852×10^{-02}	3.6017×10^{-02}	-8.1531×10^{-02}	7.6914×10^{-02}	1.6453×10^{-02}	-3.6992×10^{-04}	1.33
3.7970×10^{-02}	1.0852×10^{-02}	3.3501×10^{-02}	2.7454×10^{-02}	-5.7248×10^{-02}	1.0833×10^{-01}	1.1768×10^{-01}	-4.8394×10^{-02}	-4.93
1.3226×10^{-01}	-3.6017×10^{-02}	-2.7454×10^{-02}	1.5640×10^{-01}	2.2280×10^{-03}	1.0328×10^{-01}	-1.1758×10^{-02}	2.8335×10^{-02}	8.52
-8.0601×10^{-01}	8.1531×10^{-02}	5.7248×10^{-02}	-2.2280×10^{-03}	9.6129×10^{-01}	3.5248×10^{-02}	-2.4283×10^{-01}	1.0591×10^{-01}	6.54
$-2.5127 \times 10^{+00}$	-7.6914×10^{-02}	-1.0833×10^{-01}	-1.0328×10^{-01}	-3.5248×10^{-02}	$3.4844 \times 10^{+00}$	-1.5222×10^{-01}	1.9238×10^{-01}	-2.27
$5.6584 \times 10^{+00}$	-1.6453×10^{-02}	-1.1768×10^{-01}	1.1758×10^{-02}	2.4283×10^{-01}	1.5222×10^{-01}	$1.5451 \times 10^{+01}$	-1.1284×10^{-01}	4.29
$2.9735 \times 10^{+01}$	3.6992×10^{-04}	4.8394×10^{-02}	-2.8335×10^{-02}	-1.0591×10^{-01}	-1.9238×10^{-01}	1.1284×10^{-01}	$4.3485 \times 10^{+01}$	-2.00
$-6.0937 \times 10^{+00}$	-1.3356×10^{-02}	4.9304×10^{-01}	-8.5247×10^{-01}	-6.5404×10^{-02}	2.2796×10^{-01}	$-4.2993 \times 10^{+00}$	$2.0044 \times 10^{+00}$	3.19

- 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. ($mD/k_B T$): $2.4504 \times 10^{+01}$