

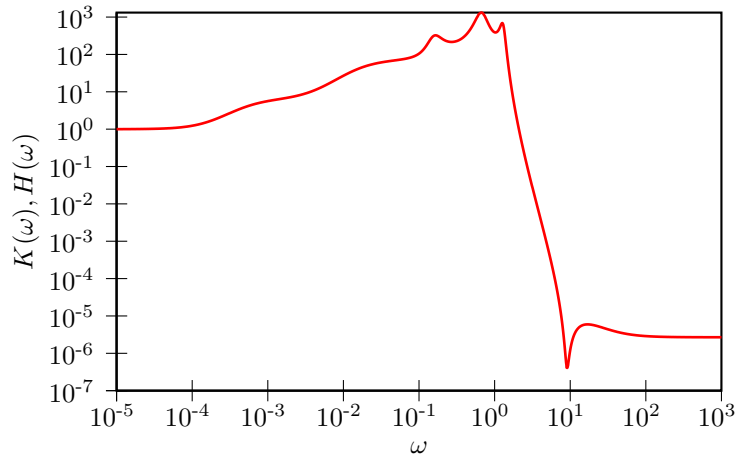
GENERALIZED LANGEVIN EQUATION ANALYTICS

- Drift matrix A_p :

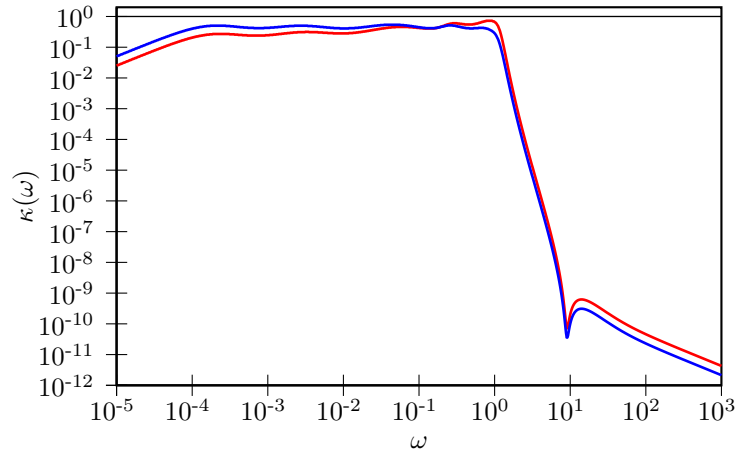
2.1366×10^{-09}	6.1128×10^{-01}	3.6921×10^{-02}	-2.7097×10^{-03}	2.8806×10^{-03}	1.2619×10^{-03}	4.2679×10^{-03}	5.0590×10^{-04}	1.8404×10^{-03}
-6.1128×10^{-01}	5.4398×10^{-09}	7.1387×10^{-02}	-4.2232×10^{-02}	3.0790×10^{-01}	7.3503×10^{-01}	1.2525×10^{-01}	3.7876×10^{-01}	3.8503×10^{-01}
-3.6921×10^{-02}	-7.1387×10^{-02}	1.0363×10^{-06}	9.5029×10^{-02}	-2.0117×10^{-02}	-4.1874×10^{-01}	-4.2715×10^{-01}	-1.0062×10^{-01}	-7.7502×10^{-02}
2.7096×10^{-03}	4.2232×10^{-02}	-9.5029×10^{-02}	1.5261×10^{-05}	-9.4373×10^{-03}	7.2972×10^{-02}	9.6644×10^{-02}	2.3786×10^{-02}	1.3062×10^{-02}
-2.8805×10^{-03}	-3.0790×10^{-01}	2.0117×10^{-02}	9.4373×10^{-03}	1.3179×10^{-05}	-5.3202×10^{-02}	-8.9144×10^{-02}	-1.0961×10^{-02}	-6.5805×10^{-03}
-1.2614×10^{-03}	-7.3503×10^{-01}	4.1874×10^{-01}	-7.2972×10^{-02}	5.3202×10^{-02}	5.6281×10^{-05}	-3.3291×10^{-01}	9.0700×10^{-02}	3.9403×10^{-02}
-4.2678×10^{-03}	-1.2525×10^{-01}	4.2715×10^{-01}	-9.6644×10^{-02}	8.9144×10^{-02}	3.3291×10^{-01}	1.2299×10^{-04}	1.5773×10^{-02}	4.0303×10^{-03}
-5.0526×10^{-04}	-3.7876×10^{-01}	1.0062×10^{-01}	-2.3786×10^{-02}	1.0961×10^{-02}	-9.0700×10^{-02}	-1.5773×10^{-02}	1.4213×10^{-04}	1.6404×10^{-04}
-1.8404×10^{-03}	-3.8528×10^{-02}	7.7502×10^{-01}	-1.3073×10^{-01}	6.5855×10^{-02}	-3.9419×10^{-01}	-4.0398×10^{-01}	-1.6432×10^{-02}	5.8703×10^{-03}

- 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. $(mD/k_B T)$: $1.2613 \times 10^{+03}$