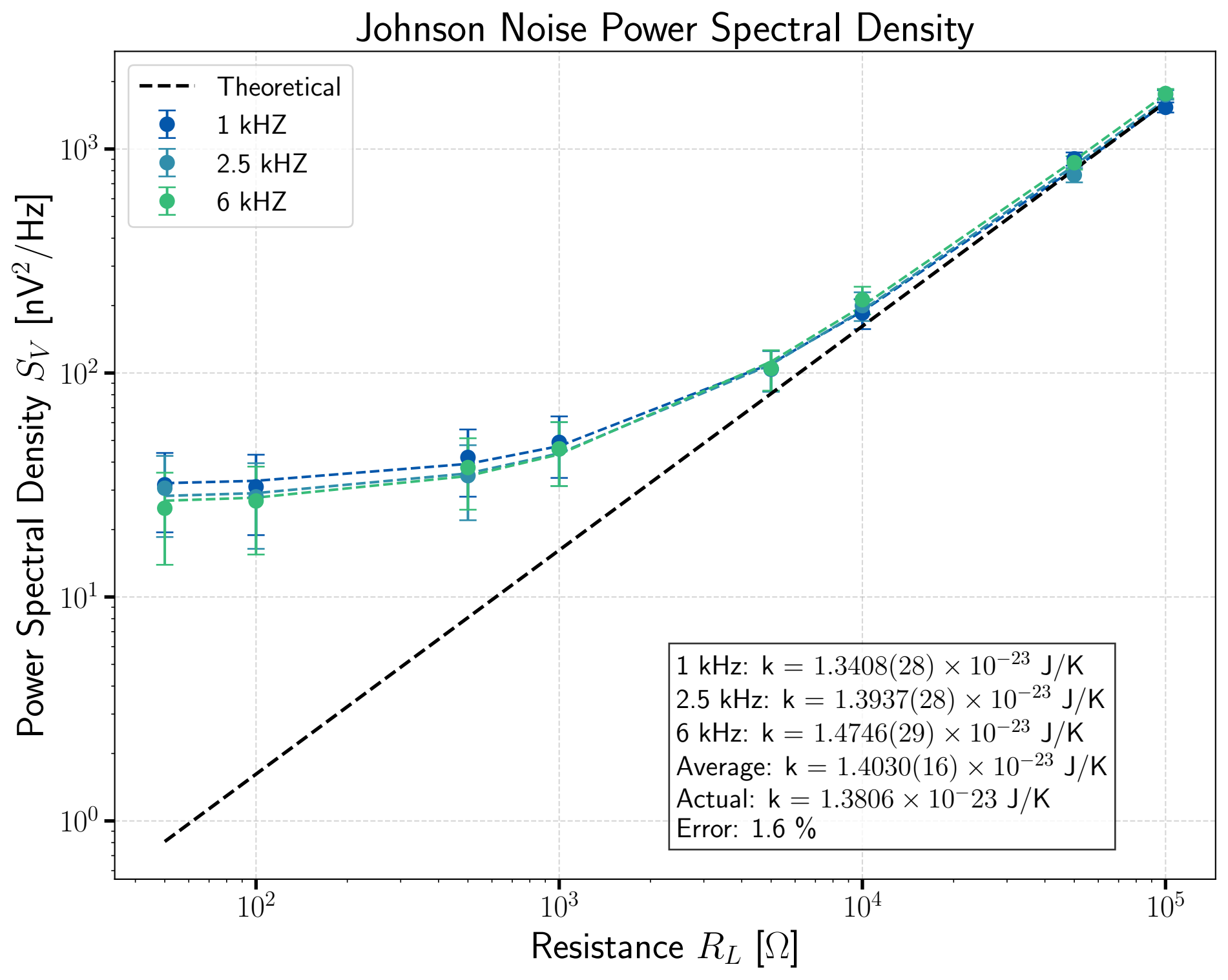
Johnson Noise Power Spectral Density
Theoretical
1 kHZ
2.5 kHZ
6 kHZ
Power Spectral Density S_V [nV^2/Hz]
Resistance R_L [Ω]
10^0
10^1
10^2
10^3
10^2
10^3
10^4
10^5
1 kHz: k = $1.3408(28) \times 10^{-23}$ J/K
2.5 kHz: k = $1.3937(28) \times 10^{-23}$ J/K
6 kHz: k = $1.4746(29) \times 10^{-23}$ J/K
Average: k = $1.4030(16) \times 10^{-23}$ J/K
Actual: k = $1.3806 \times 10^{-}23$ J/K
Error: 1.6 %