Thermal noise limit

Parameters needed for thermal noise calculation

Description	Material	Parameter name	Value	Comment
Boltzmann constant		kb	1.38064852 × 10-23 m2 kg s-2 K-1	
Temperature (K)		T	300	
Poisson Ratio of substrate	Fused Silica	σ_{sb}	0.16	Fused Silica substrtae [1]
Poisson Ratio of coating	AlGaAs	σ_c	0.32	AlGaAs coating [2]
Young's modulus of substrate	Fused Silica	E_{sb}	72.7 Gpa	Fused Silica substrtae [1]