

Force Coefficient Generation

Generated on November 8, 2019

1 LHO X End

Parameter	Value	Rel. Std. Dev. [%]	Rel. Std. Err. [%]
c [m/s]	299792458	[0]	[0]
$\cos \theta$	0.98836	[0.04000]	[0.04000]
$2 \cos \theta / c$ [N/W]	6.59364e-09	0.04000	0.04000
ρ_G [V/W]	-8.09850	[0.32000]	[0.32000]
α_{WG}	1.11429	[0.13728]	[0.02390]
ζ_{MW}	1.00000	[0.00000]	[0.00000]
β	0.99889	[0.06800]	[0.06400]
α_{TW}	-0.55946	-0.10700	-0.04160
α_{RW}	-0.72069	-0.11773	-0.04577
ζ_{WM} [ct/V]	1636.94440	[0.00306]	[0.00119]
e	0.98714	0.08365	0.03252
$\mathcal{E}_T$	1.00705	0.04182	0.01626
$\mathcal{E}_R$	0.99410	0.04182	0.01626
Temp. Corr.	stat.	[0.20000]	[0.20000]
$\mathcal{U}_{\text{rel}}(\Gamma_T)$	stat.	0.14837	0.05768
$\mathcal{U}_{\text{rel}}(\Gamma_R)$	stat.	0.09225	0.03586
Γ_T [N/ct]	7.92612e-13	-	0.38987
Γ_R [N/ct]	6.22955e-13	-	0.38724
BG_T [ct]	9.03546	4.51963	1.75704
BG_R [ct]	0.44409	13.71260	5.33087
$\mathcal{U}_{\text{rel}}(\rho_T)$	stat.	0.11618	0.04516
$\mathcal{U}_{\text{rel}}(\rho_R)$	stat.	0.11760	0.04572
ρ_T [ct/W]	8.26228e+03	-	0.38080
ρ_R [ct/W]	1.06460e+04	-	0.38087

2 LHO Y End

Parameter	Value	Rel. Std. Dev. [%]	Rel. Std. Err. [%]
c [m/s]	299792458	[0]	[0]
$\cos \theta$	0.98836	[0.04000]	[0.04000]
$2 \cos \theta / c$ [N/W]	6.59364e-09	0.04000	0.04000
ρ_G [V/W]	-8.09850	[0.32000]	[0.32000]
α_{WG}	1.11429	[0.13728]	[0.02390]
ζ_{MW}	1.00000	[0.00000]	[0.00000]
β	0.99884	[0.06800]	[0.06400]
α_{TW}	-0.48121	-0.12223	-0.03950
α_{RW}	-0.71569	-0.05092	-0.01646
ζ_{WM} [ct/V]	1637.62079	[0.00514]	[0.00175]
e	0.98873	0.11487	0.03712
$\mathcal{E}_T$	1.00626	0.05744	0.01856
$\mathcal{E}_R$	0.99493	0.05744	0.01856
Temp. Corr.	stat.	[0.20000]	[0.20000]
$\mathcal{U}_{\text{rel}}(\Gamma_T)$	stat.	0.15395	0.04975
$\mathcal{U}_{\text{rel}}(\Gamma_R)$	stat.	0.07516	0.02429
Γ_T [N/ct]	9.21397e-13	-	0.38878
Γ_R [N/ct]	6.26634e-13	-	0.38634
BG_T [ct]	18.08873	1.28421	0.41502
BG_R [ct]	-0.70712	-8.40045	-2.71481
$\mathcal{U}_{\text{rel}}(\rho_T)$	stat.	0.11920	0.03852
$\mathcal{U}_{\text{rel}}(\rho_R)$	stat.	0.05044	0.01630
ρ_T [ct/W]	7.11129e+03	-	0.38008
ρ_R [ct/W]	1.05763e+04	-	0.37847

3 LLO X End

Parameter	Value	Rel. Std. Dev. [%]	Rel. Std. Err. [%]
c [m/s]	299792458	[0]	[0]
$\cos \theta$	0.98836	[0.04000]	[0.04000]
$2 \cos \theta / c$ [N/W]	6.59364e-09	0.04000	0.04000
ρ_G [V/W]	-8.09850	[0.32000]	[0.32000]
α_{WG}	1.07309	[0.06284]	[0.02565]
ζ_{MW}	1.00000	[0.00000]	[0.00000]
β	0.99692	[0.06800]	[0.06400]
α_{TW}	-0.44427	-0.01071	-0.00495
α_{RW}	-0.71235	-0.01951	-0.00901
ζ_{WM} [ct/V]	1638.07878	[0.00143]	[0.00074]
e	0.98672	0.00737	0.00340
$\mathcal{E}_T$	1.00826	0.00369	0.00170
$\mathcal{E}_R$	0.99487	0.00369	0.00170
Temp. Corr.	stat.	[0.20000]	[0.20000]
$\mathcal{U}_{\text{rel}}(\Gamma_T)$	stat.	0.04682	0.02163
$\mathcal{U}_{\text{rel}}(\Gamma_R)$	stat.	0.07155	0.03305
Γ_T [N/ct]	1.03375e-12	-	0.38629
Γ_R [N/ct]	6.53339e-13	-	0.38710
BG_T [ct]	3.94294	10.59391	4.89348
BG_R [ct]	-0.02358	-694.47724	-320.78880
$\mathcal{U}_{\text{rel}}(\rho_T)$	stat.	0.03333	0.01540
$\mathcal{U}_{\text{rel}}(\rho_R)$	stat.	0.05780	0.02670
ρ_T [ct/W]	6.32501e+03	-	0.37854
ρ_R [ct/W]	1.01438e+04	-	0.37917

4 LLO Y End

Parameter	Value	Rel. Std. Dev. [%]	Rel. Std. Err. [%]
c [m/s]	299792458	[0]	[0]
$\cos \theta$	0.98836	[0.04000]	[0.04000]
$2 \cos \theta / c$ [N/W]	6.59364e-09	0.04000	0.04000
ρ_G [V/W]	-8.09850	[0.32000]	[0.32000]
α_{WG}	1.07309	[0.06284]	[0.02565]
ζ_{MW}	1.00000	[0.00000]	[0.00000]
β	0.99995	[0.06800]	[0.06401]
α_{TW}	-0.46467	-0.15722	-0.07262
α_{RW}	-0.72652	-0.06968	-0.03219
ζ_{WM} [ct/V]	1634.38044	[0.00492]	[0.00227]
e	0.98920	0.15088	0.06969
$\mathcal{E}_T$	1.00547	0.07550	0.03487
$\mathcal{E}_R$	0.99461	0.07546	0.03486
Temp. Corr.	stat.	[0.20000]	[0.20000]
$\mathcal{U}_{\text{rel}}(\Gamma_T)$	stat.	0.16485	0.07615
$\mathcal{U}_{\text{rel}}(\Gamma_R)$	stat.	0.08865	0.04095
Γ_T [N/ct]	9.93820e-13	-	0.39314
Γ_R [N/ct]	6.42432e-13	-	0.38786
BG_T [ct]	17.52626	0.59883	0.27661
BG_R [ct]	1.87226	5.15160	2.37960
$\mathcal{U}_{\text{rel}}(\rho_T)$	stat.	0.16842	0.07780
$\mathcal{U}_{\text{rel}}(\rho_R)$	stat.	0.07031	0.03248
ρ_T [ct/W]	6.59876e+03	-	0.38616
ρ_R [ct/W]	1.03193e+04	-	0.37963