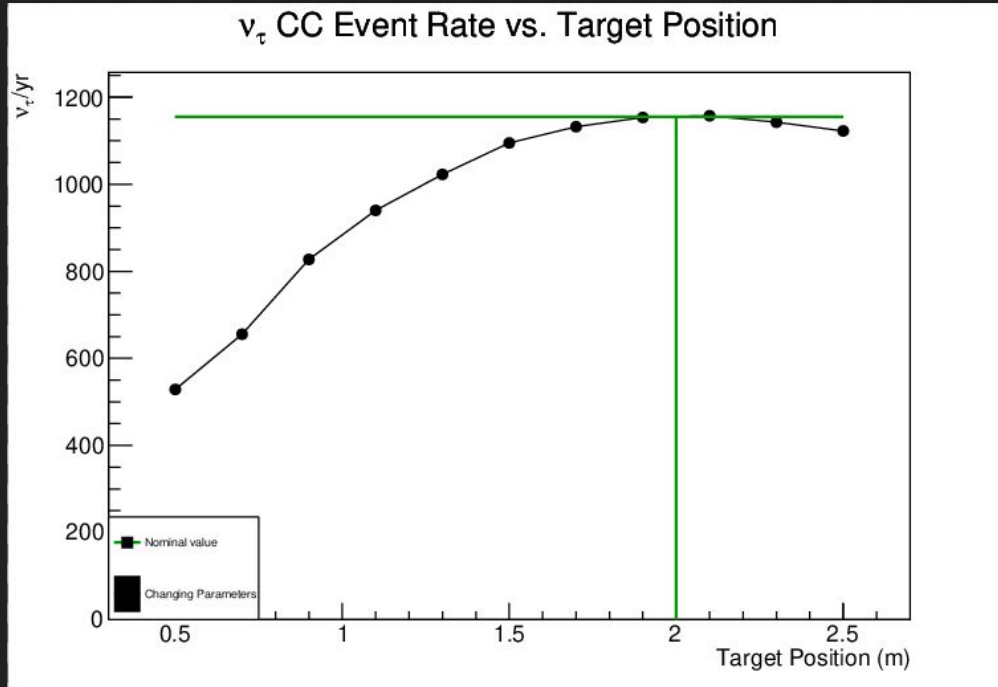


Final Flux Graphs

Eric Leon

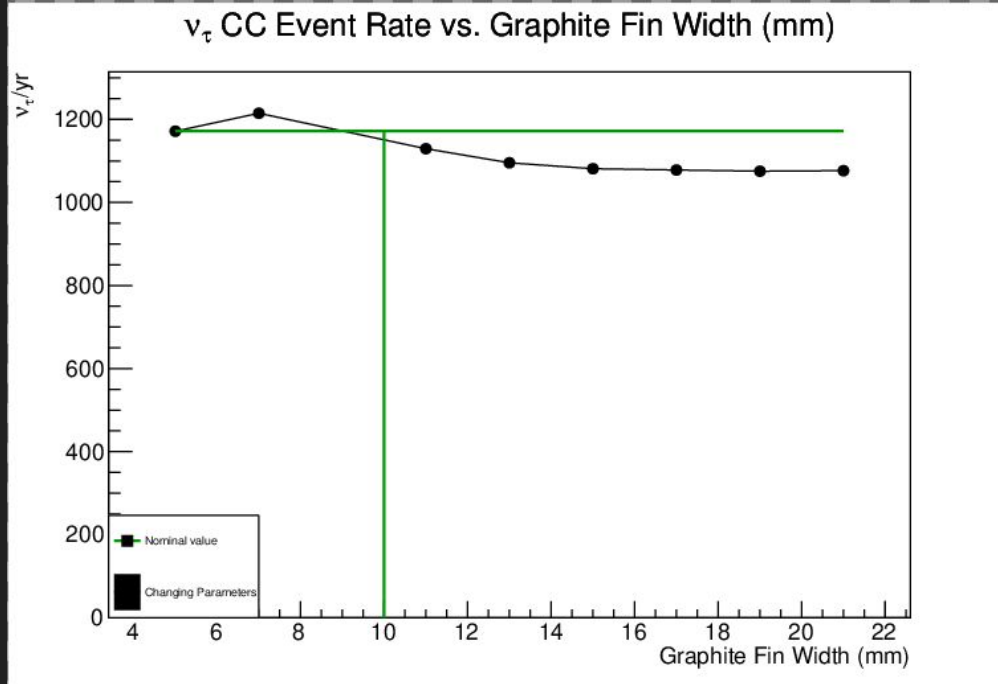
TauOptimized

nu_tau/yr vs Target Positions



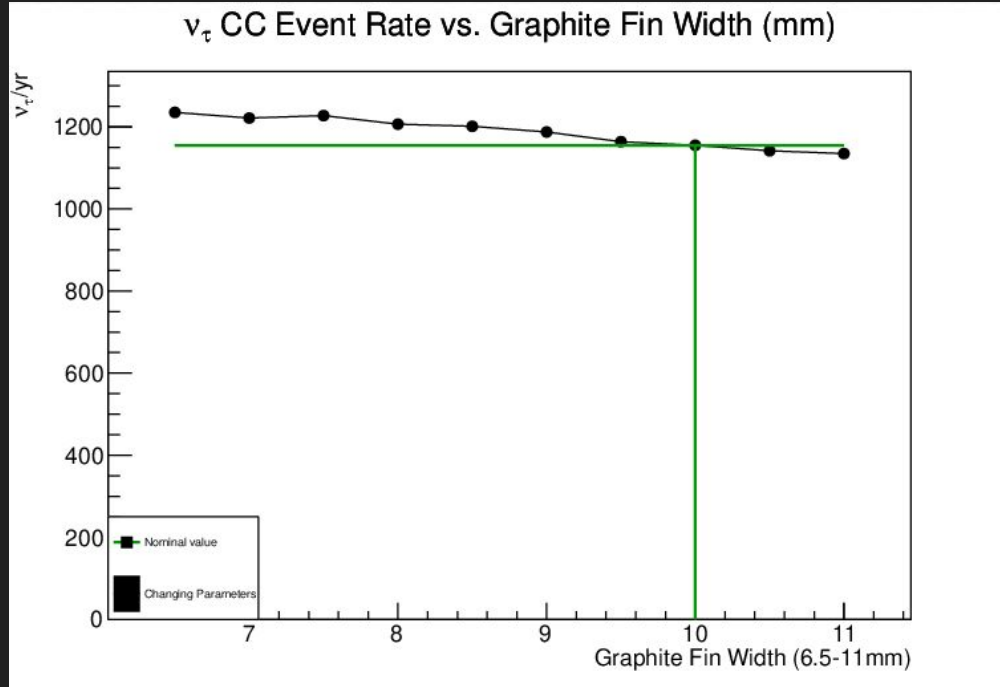
	target positions (m)	taus/yr
0	0.5	528.646913
1	0.7	655.494950
2	0.9	827.375053
3	1.1	940.043273
4	1.3	1022.725149
5	1.5	1095.034681
6	1.7	1132.290946
7	1.9	1153.556636
8	2.1	1157.467360
9	2.3	1142.691941
10	2.5	1122.587004

nu_tau/yr vs Graphite Fin Width



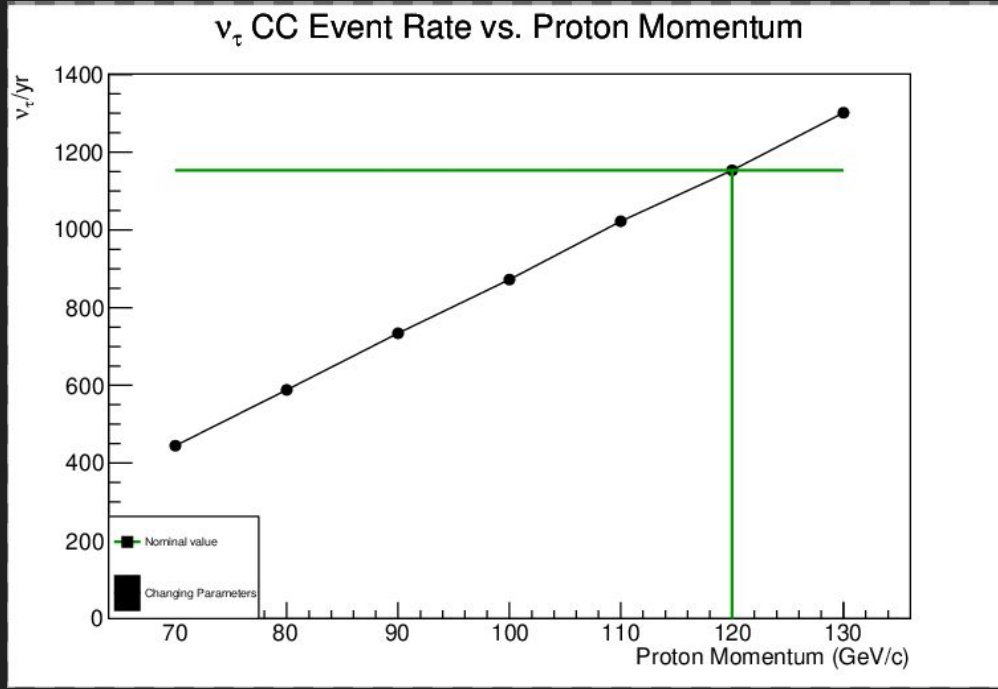
Graphite Fin Width (mm)	ν_τ/yr
5	1171.594547
7	1214.924481
11	1129.528487
13	1095.566489
15	1081.314539
17	1078.236247
19	1075.265462
21	1076.562127

nu_tau/yr vs Graphite Fin Width(zoom in)



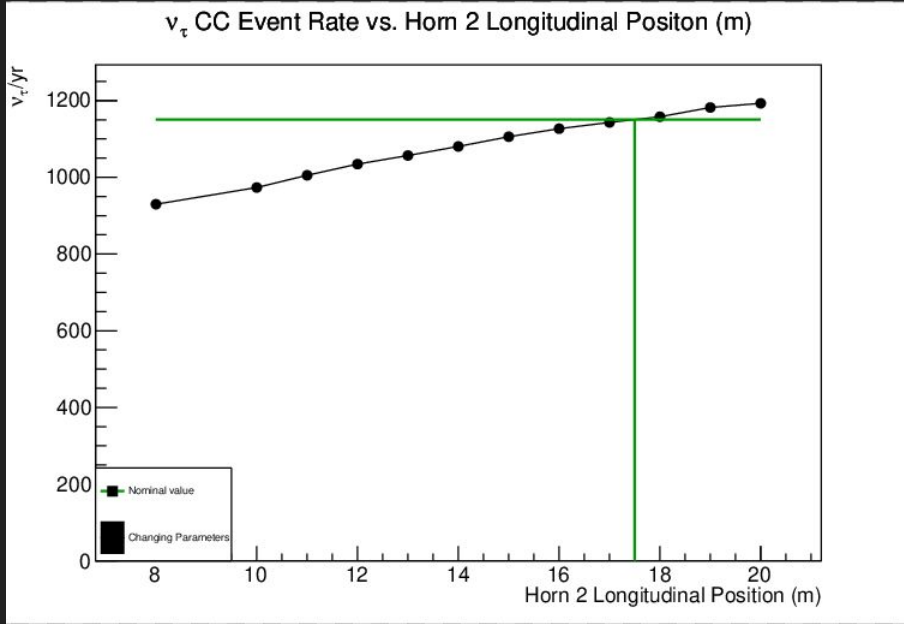
Graphite Fin Width (mm)	ν_τ/yr
0	6.5 1235.131128
1	7.0 1221.358848
2	7.5 1227.316091
3	8.0 1206.440258
4	8.5 1201.273254
5	9.0 1187.393092
6	9.5 1163.727583
7	10.0 1154.948368
8	10.5 1141.608542
9	11.0 1134.744383

nu_tau/yr vs Proton Momentum



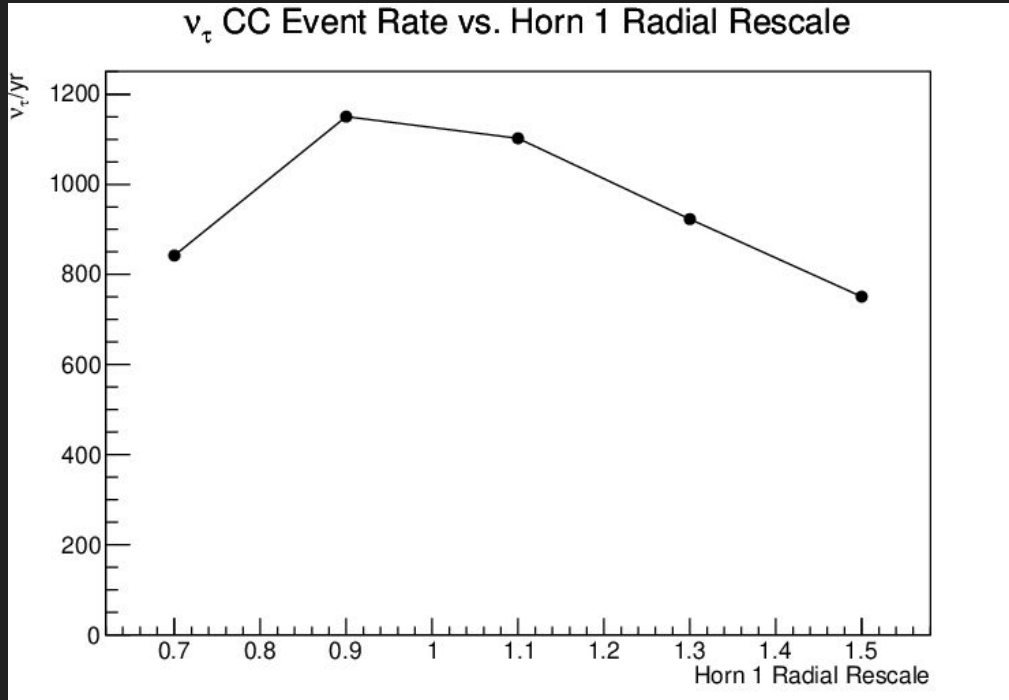
	Proton Momentum	taus/yr
0	70	444.653954
1	80	588.348318
2	90	734.037186
3	100	872.224520
4	110	1022.254309
5	120	1153.369511
6	130	1301.600972

nu_tau/yr vs Horn2Long Position



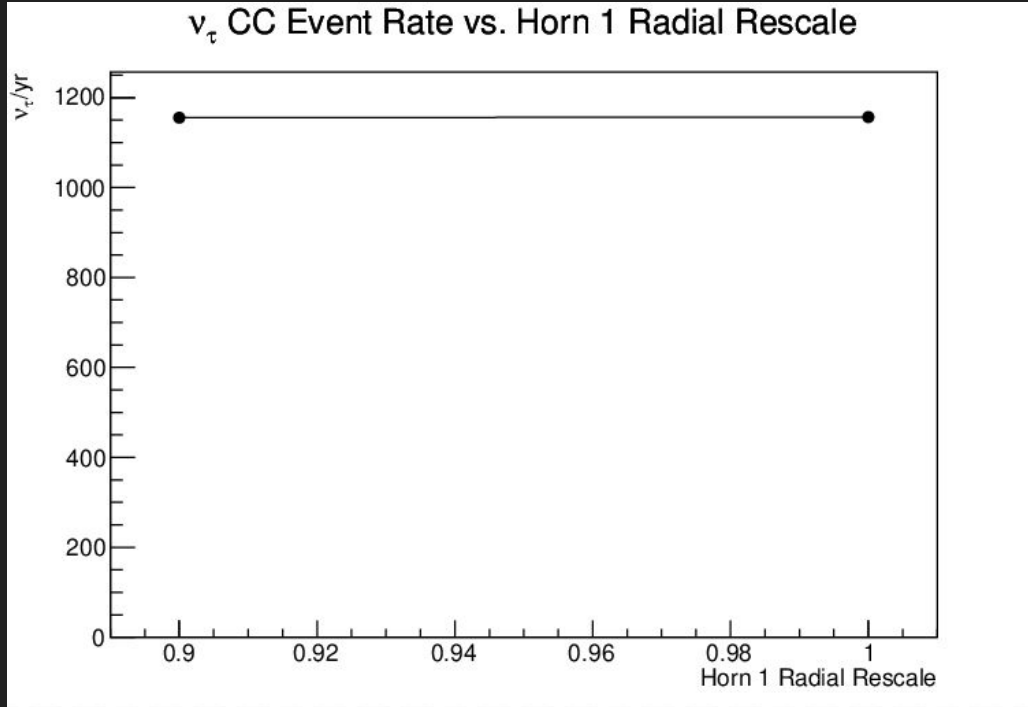
	Horn2LongitudinalPosition (m)	taus/yr
0	8	929.720826
1	10	973.316354
2	11	1005.193432
3	12	1034.344020
4	13	1056.694437
5	14	1080.394040
6	15	1105.710451
7	16	1126.692847
8	17	1143.000366
9	18	1157.745810
10	19	1181.880094
11	20	1192.823272

nu_tau/yr vs Horn1RadialRescale



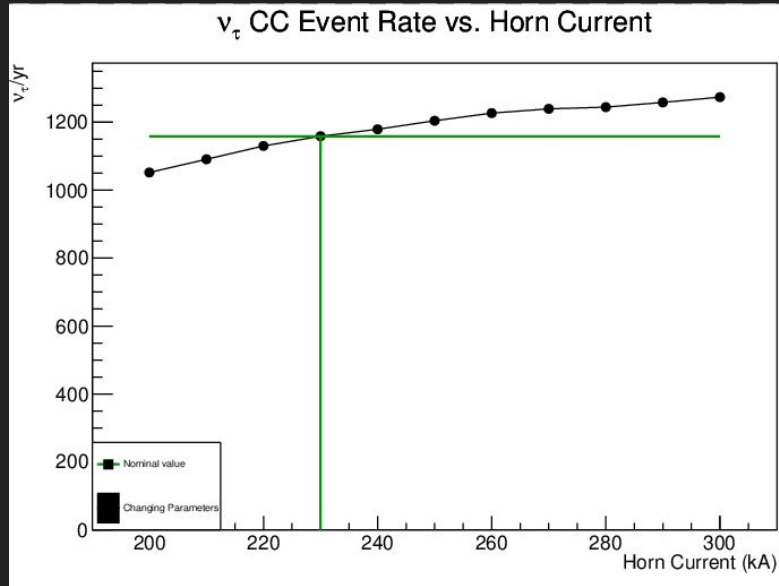
	Horn1RadialRescale	taus/yr
0	0.7	842.049969
1	0.9	1150.245742
2	1.1	1102.069930
3	1.3	922.788051
4	1.5	750.726383

nu_tau/yr vs Horn1RadialRescale ZOOM



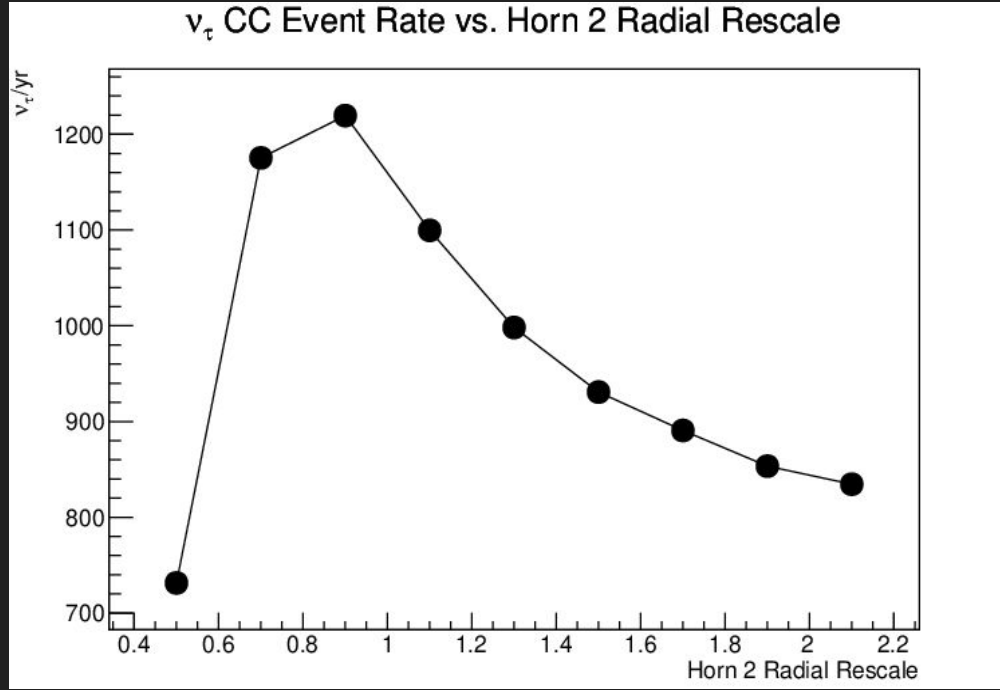
	Horn1RadialRescale	taus/yr
0	0.9	1155.277354
1	1.0	1156.601761

nu_tau/yr vs HornCurrent



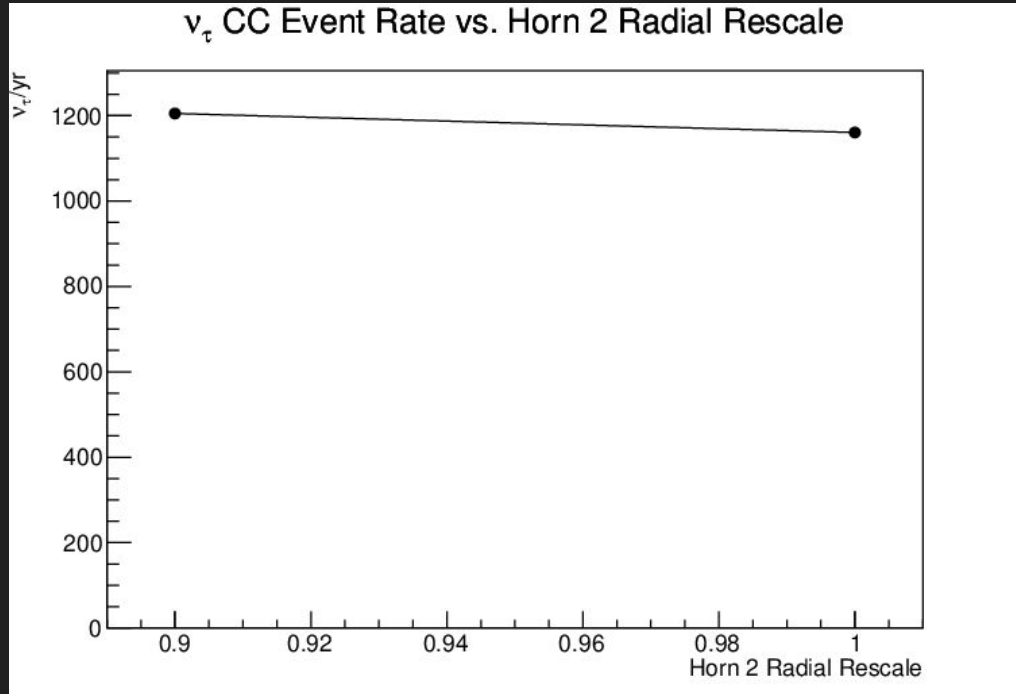
	Horn Current (kA)	taus/yr
0	200	1051.956823
1	210	1090.742587
2	220	1130.016593
3	230	1158.588226
4	240	1179.103502
5	250	1204.172319
6	260	1226.615860
7	270	1239.146584
8	280	1244.278907
9	290	1258.138250
10	300	1273.611681

nu_tau/yr vs Horn2RadialRescale



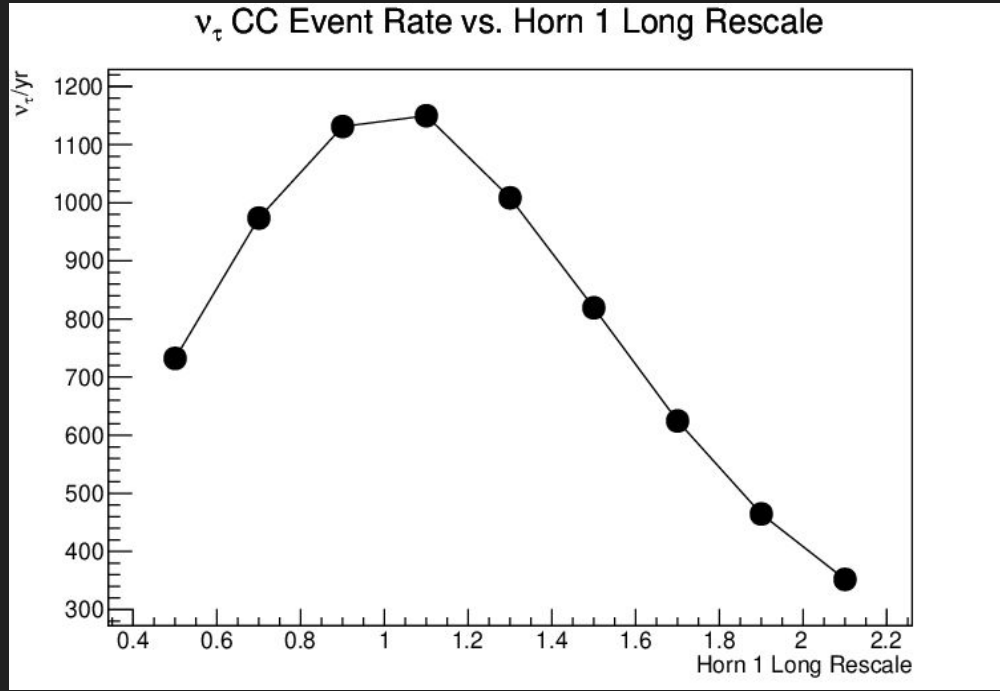
	Horn2RadialRescale	taus/yr
0	0.5	731.441989
1	0.7	1175.324719
2	0.9	1219.494011
3	1.1	1099.649114
4	1.3	998.198955
5	1.5	930.783450
6	1.7	890.665393
7	1.9	853.457881
8	2.1	834.552254

nu_tau/yr vs Horn2RadialRescale ZOOM



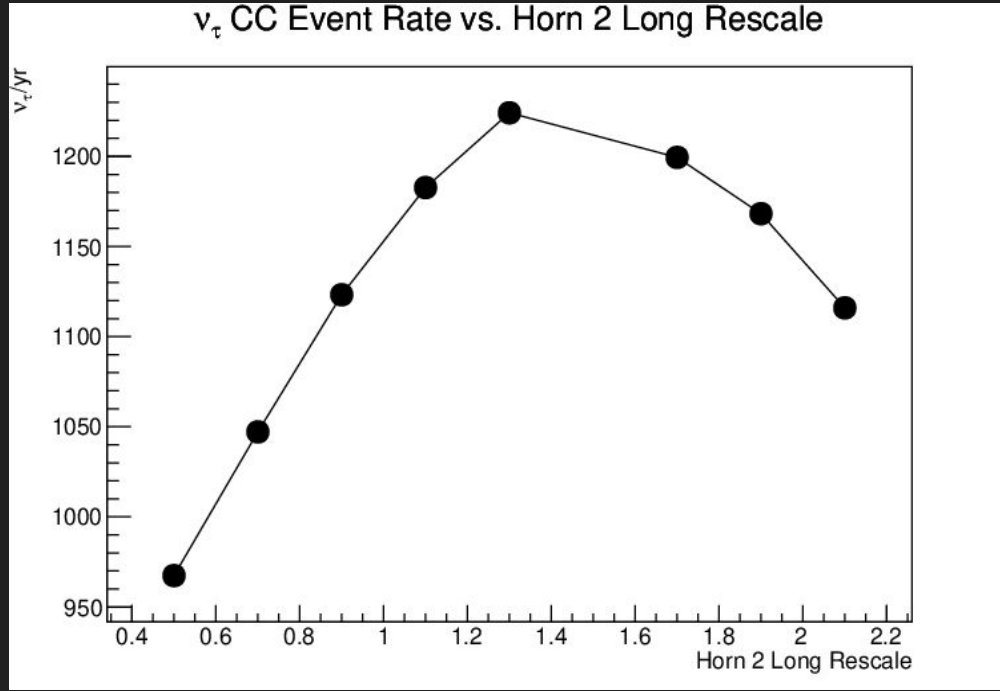
	Horn2RadialRescale	taus/yr
0	0.9	1205.103154
1	1.0	1160.561734

nu_tau/yr vs Horn1LongRescale



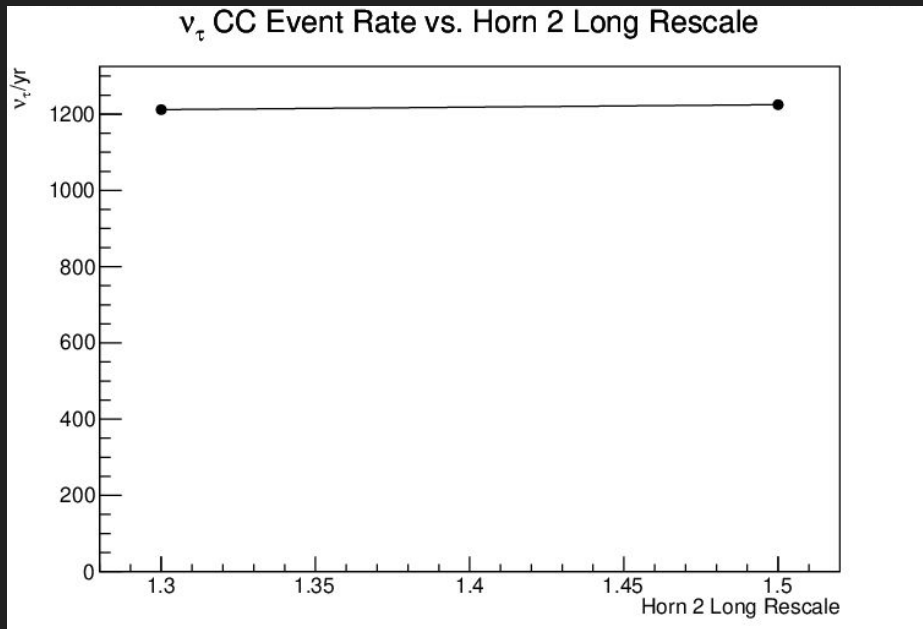
	Horn1LongRescale	taus/yr
0	0.5	732.206307
1	0.7	973.628204
2	0.9	1131.102441
3	1.1	1149.692988
4	1.3	1008.421213
5	1.5	819.228726
6	1.7	624.590224
7	1.9	464.613305
8	2.1	352.028688

nu_tau/yr vs Horn2LongRescale



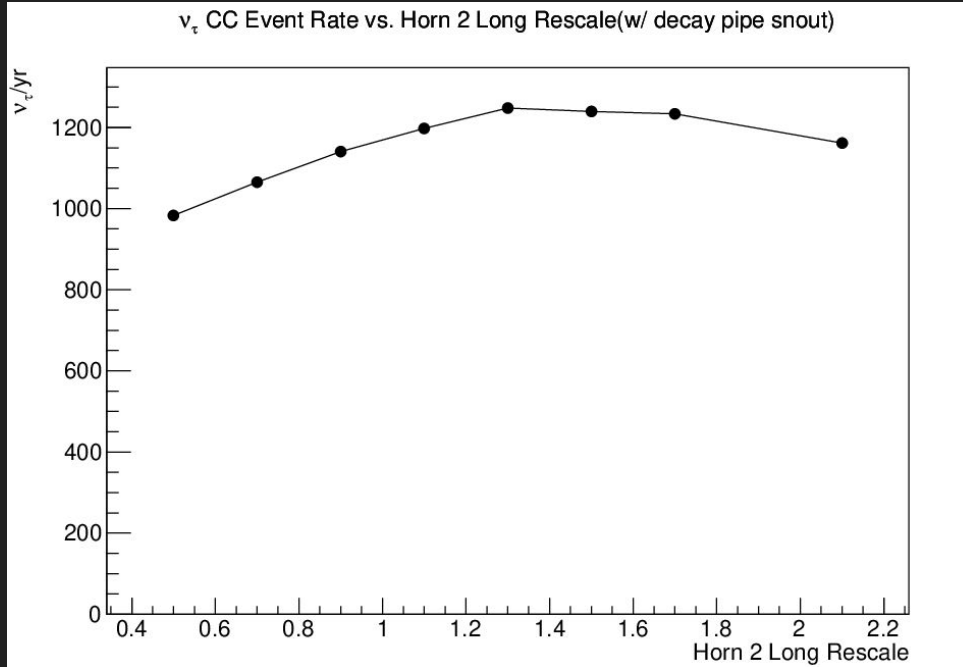
	Horn2LongRescale	taus/yr
0	0.5	967.427592
1	0.7	1047.153627
2	0.9	1123.245424
3	1.1	1182.690657
4	1.3	1224.189208
5	1.7	1199.462197
6	1.9	1168.216495
7	2.1	1115.950054

nu_tau/yr vs Horn2LongRescale ZOOM



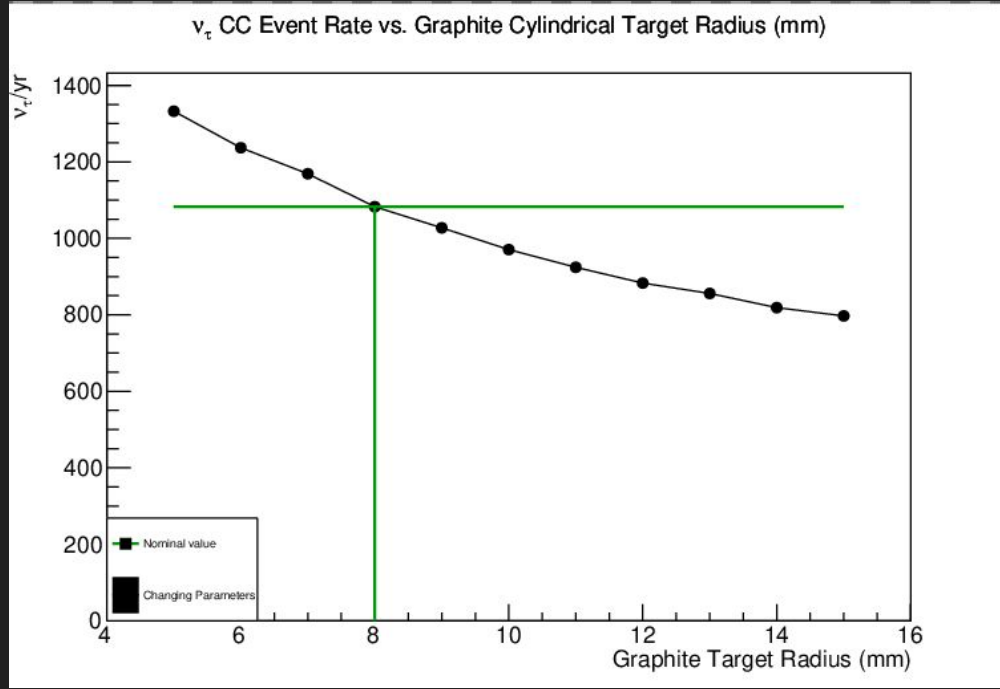
	Horn2LongRescale	taus/yr
0	1.3	1211.862811
1	1.5	1224.906579

nu_tau/yr vs Horn2LongRescale w/ Decay Snout



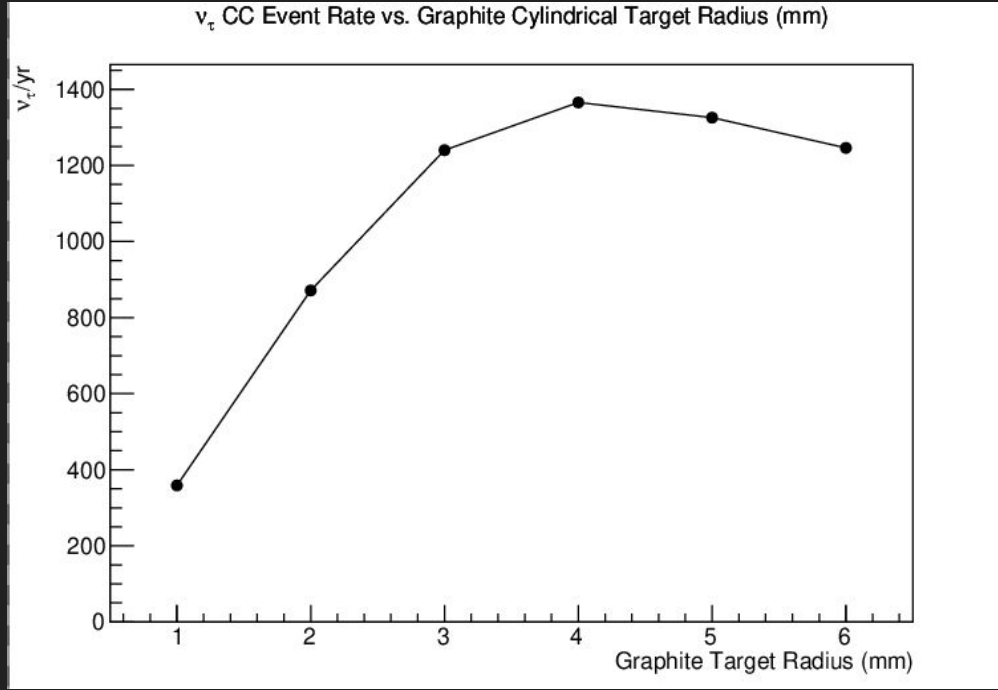
	Horn2LongRescale DS	taus/yr
0	0.5	983.245773
1	0.7	1064.808103
2	0.9	1140.576127
3	1.1	1196.951983
4	1.3	1247.649084
5	1.5	1239.574630
6	1.7	1233.364460
7	2.1	1161.180902

nu_tau/yr vs Cylindrical Graphite Target Radius



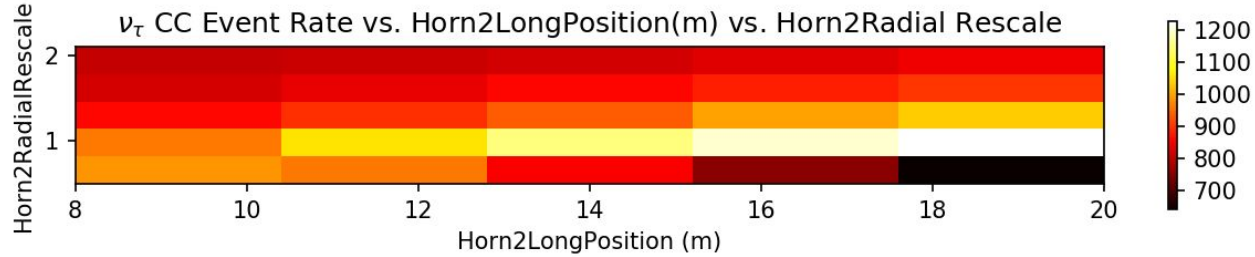
	Cylindrical Target Radius (mm)	taus/yr
0	5	1332.443134
1	6	1236.855456
2	7	1168.839495
3	8	1082.661001
4	9	1027.467329
5	10	970.612549
6	11	924.318331
7	12	883.068976
8	13	855.890630
9	14	818.821658
10	15	797.144689

nu_tau/yr vs Cylindrical Graphite Target Radius (1-6mm)



Cylindrical Target Radius (mm)	taus/yr
0	1 358.768786
1	2 871.368765
2	3 1240.138339
3	4 1365.543954
4	5 1325.757031
5	6 1246.144937

nu_tau/yr vs H2l vs H2rr

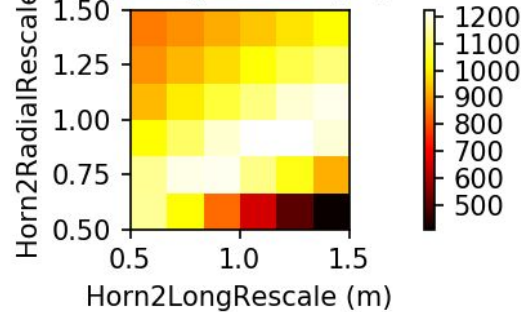


H2RR(side) vs H2l position (top)

	8m	11m	14m	17m	20m
0.5	984.85	960.61	852.79	754.83	641.01
0.9	961.16	1054.16	1150.19	1198.43	1227.21
1.3	862.13	897.33	936.24	996.08	1034.22
1.7	819.37	837.72	859.73	881.59	902.55
2.1	803.9	810.14	816.99	830.85	842.59

H2LR vs H2RR

ν_τ CC Event Rate vs. Horn2LongRescale(m) vs. Horn2Radial Rescale

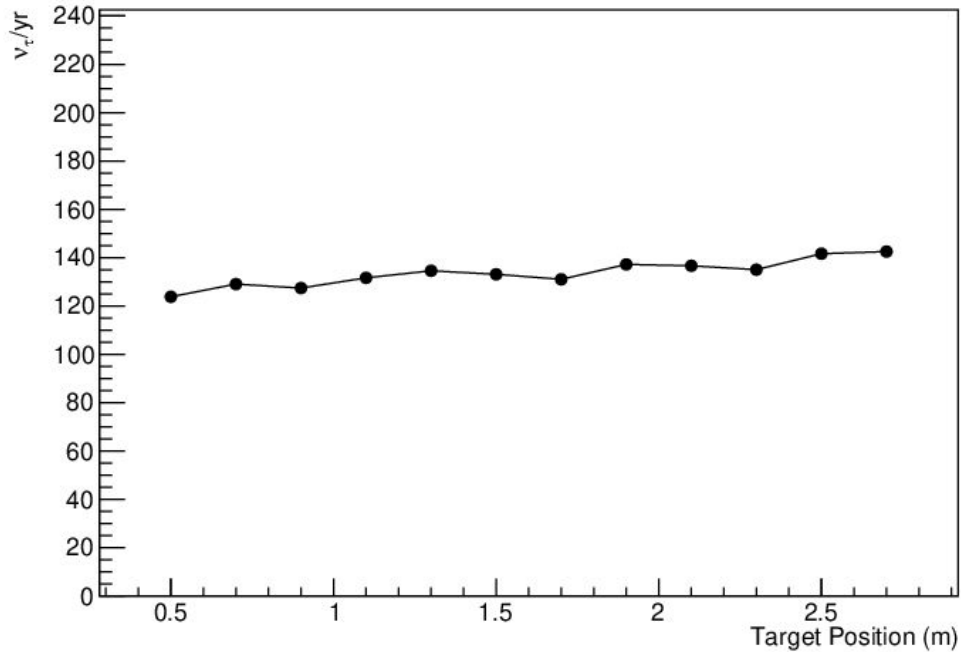


	0.5	0.7	0.9	1.1	1.3	1.5
0.5r	1137.93	1019.03	835.92	655.65	508.5	408.81
0.7r	1136.4	1201.9	1207.13	1126.2	1034.15	918.58
0.9r	1018.92	1097.73	1182.27	1221.82	1222.89	1188.89
1.1r	930.59	996.75	1062.31	1120.84	1186.61	1204.96
1.3r	883.61	929.44	973.33	1021.95	1076.13	1113.47
1.5r	854.94	881.25	915.38	947.33	982.21	1015.67

CP Optimized BC

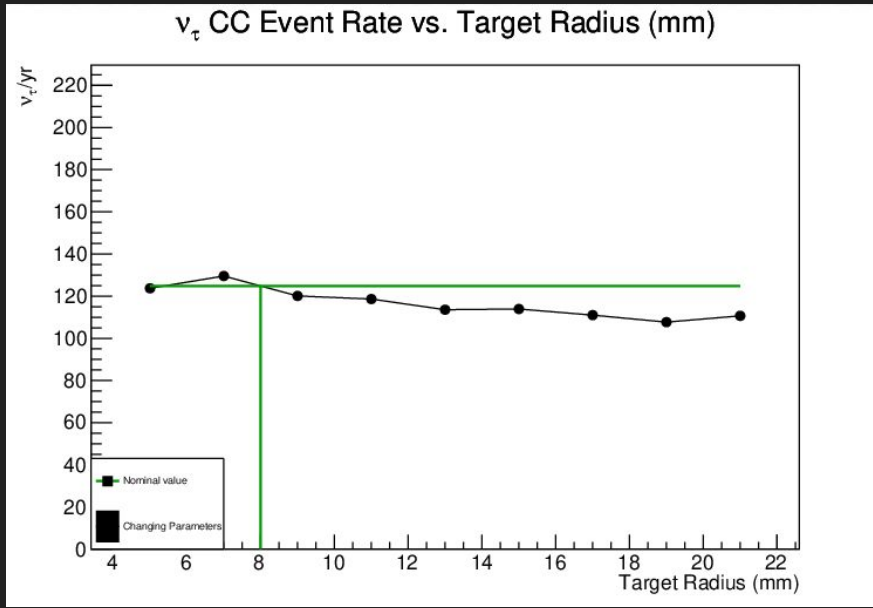
CPOptimized Nu_τ/yr vs Target Position (m)

ν_τ CC Event Rate vs. Target Position



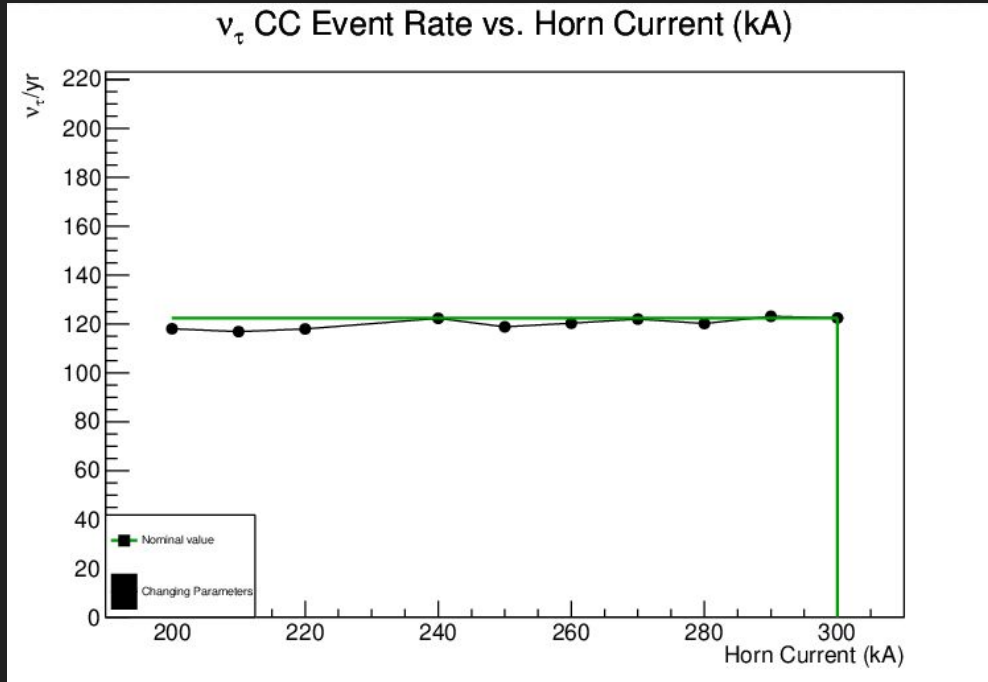
	target positions (m)	taus/yr
0	0.5	123.835602
1	0.7	129.076882
2	0.9	127.442364
3	1.1	131.663545
4	1.3	134.585346
5	1.5	133.125895
6	1.7	131.050313
7	1.9	137.218231
8	2.1	136.653962
9	2.3	135.048264
10	2.5	141.660481
11	2.7	142.526458

CPOptimized Nu_tau/yr vs Target Radius (m)



	target radius (mm)	taus/yr
0	5	123.723991
1	7	129.557582
2	9	120.101486
3	11	118.642052
4	13	113.585467
5	15	113.914660
6	17	111.018341
7	19	107.682872
8	21	110.671407

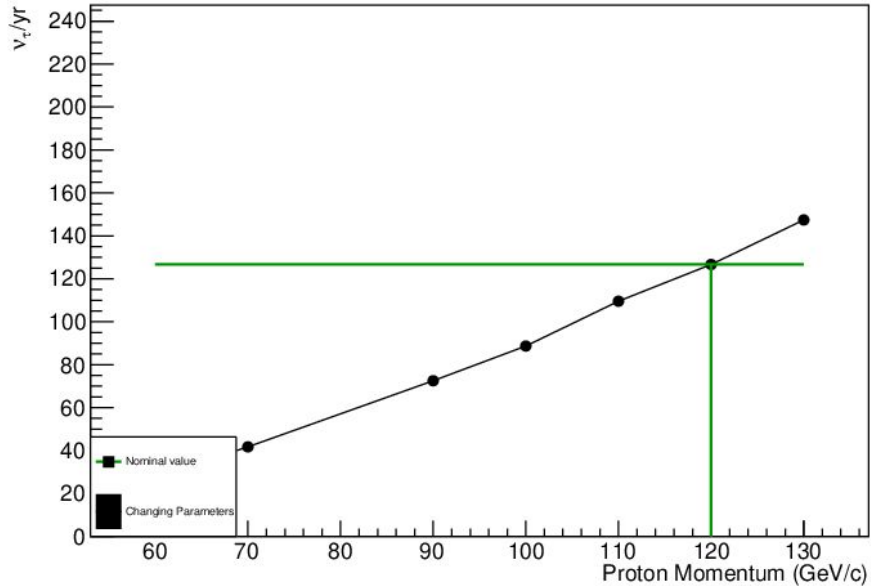
CPOptimized Nu_tau/yr vs Horn Current (kA)



	Horn Current (kA)	taus/yr
0	200	118.022493
1	210	116.855530
2	220	117.953251
3	240	122.290989
4	250	118.819550
5	260	120.304890
6	270	121.989943
7	280	120.168724
8	290	123.118728
9	300	122.417939

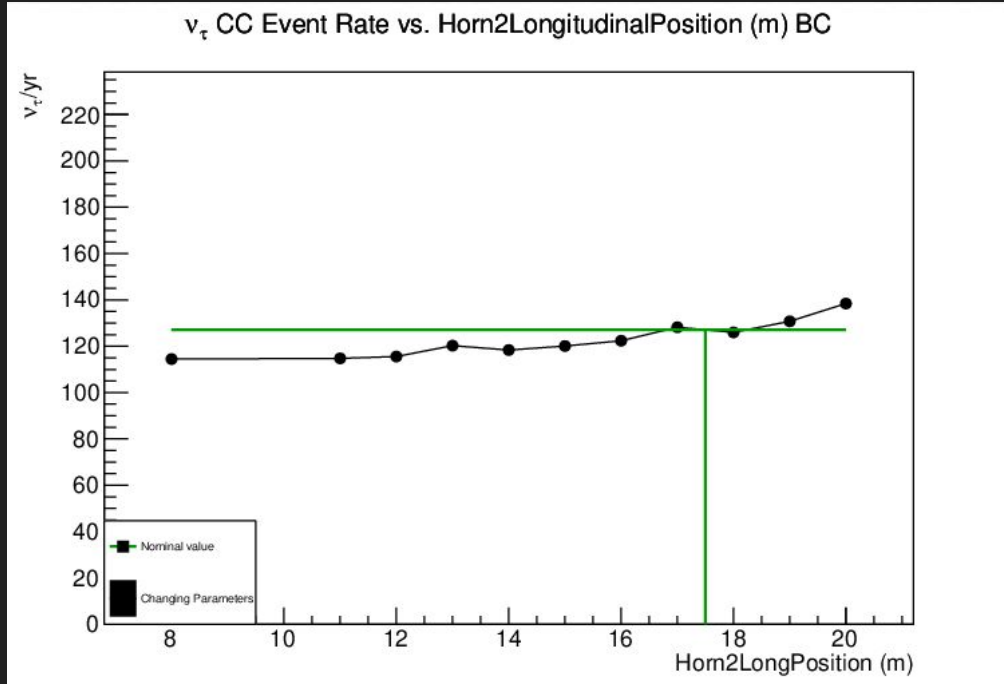
CPOptimized Nu_tau/yr vs Proton Momentum

ν_τ CC Event Rate vs. Proton Momentum (GeV/c)



	Proton Momentum (GeV/c)	ν_τ /yr
0	60	27.614055
1	70	41.733901
2	90	72.516839
3	100	88.683660
4	110	109.557035
5	120	126.671977
6	130	147.404374

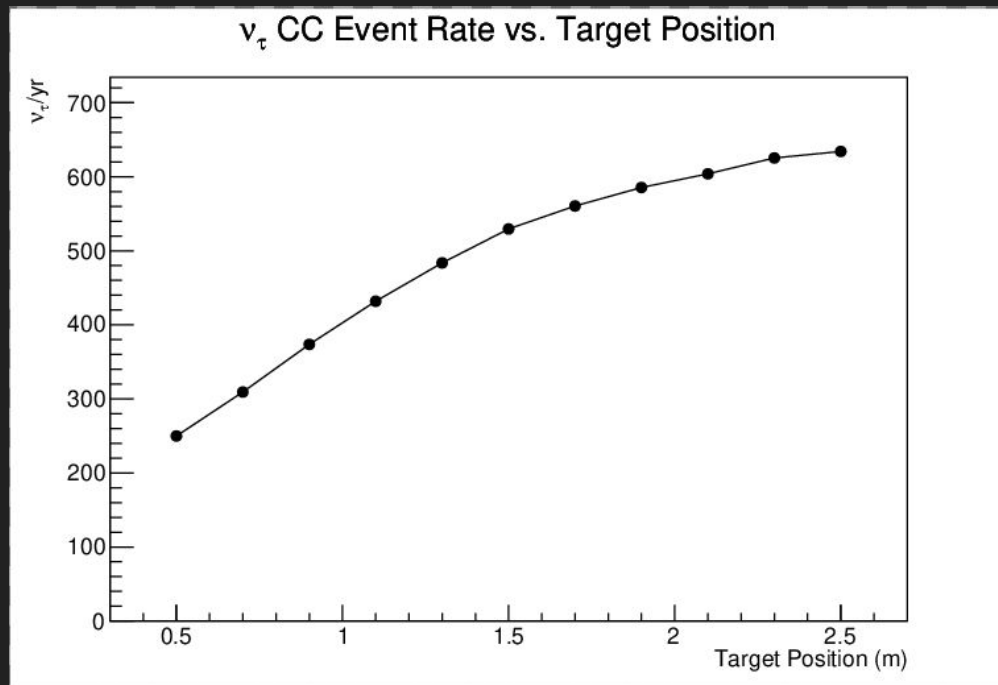
CPOptimized Nu_τ/yr vs Horn2LongPosition (m)



	Horn2LongitudinalPosition (m)	taus/yr
0	8	114.468210
1	11	114.758485
2	12	115.558269
3	13	120.258043
4	14	118.357969
5	15	120.081162
6	16	122.369666
7	17	128.193902
8	18	125.972743
9	19	130.759575
10	20	138.431999

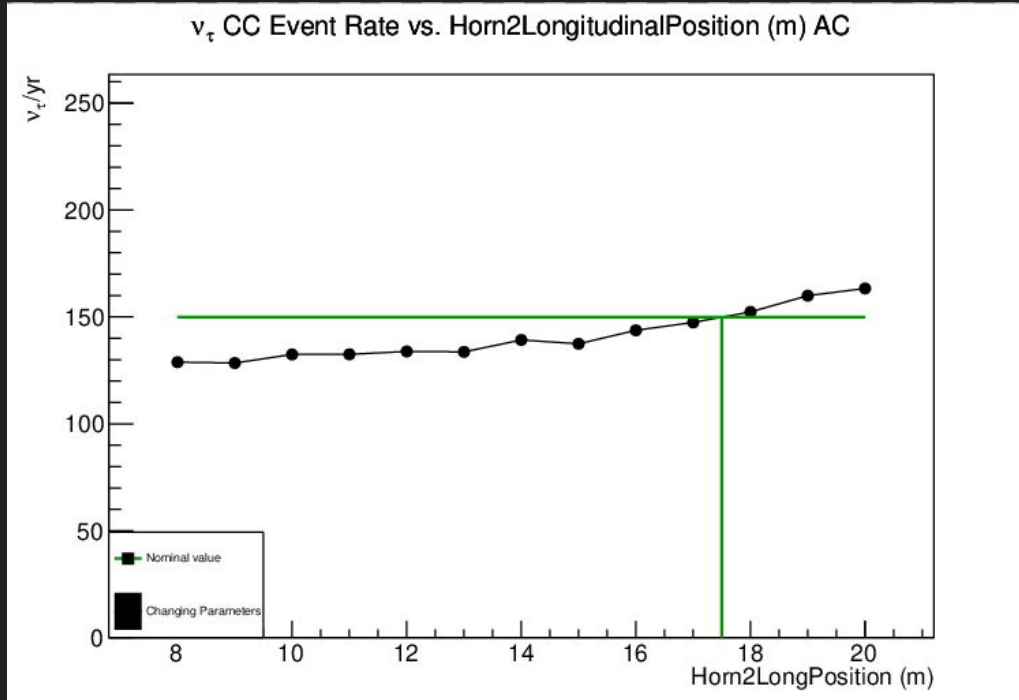
CP Optimized AC

CPOptimizedAC Nu_τ/yr vs Target Position



	target positions (m)	taus/yr
0	0.5	249.894154
1	0.7	309.296634
2	0.9	373.606274
3	1.1	431.870242
4	1.3	483.643930
5	1.5	529.512604
6	1.7	560.485275
7	1.9	585.485851
8	2.1	603.917930
9	2.3	625.344296
10	2.5	634.143902

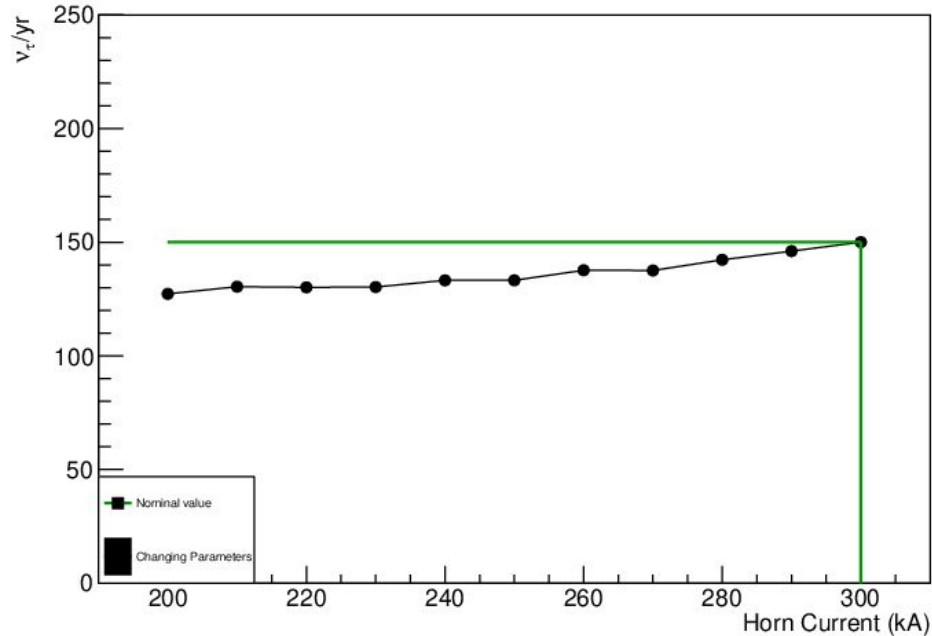
CPOptimizedAC Nu_tau/yr vs Horn2LongitudinalPosition



Horn2LongitudinalPosition (m)	taus/yr
0	8 128.812491
1	9 128.434615
2	10 132.429851
3	11 132.490799
4	12 133.839116
5	13 133.626119
6	14 139.209333
7	15 137.411642
8	16 143.722114
9	17 147.402675
10	18 152.312971
11	19 159.929812
12	20 163.287587

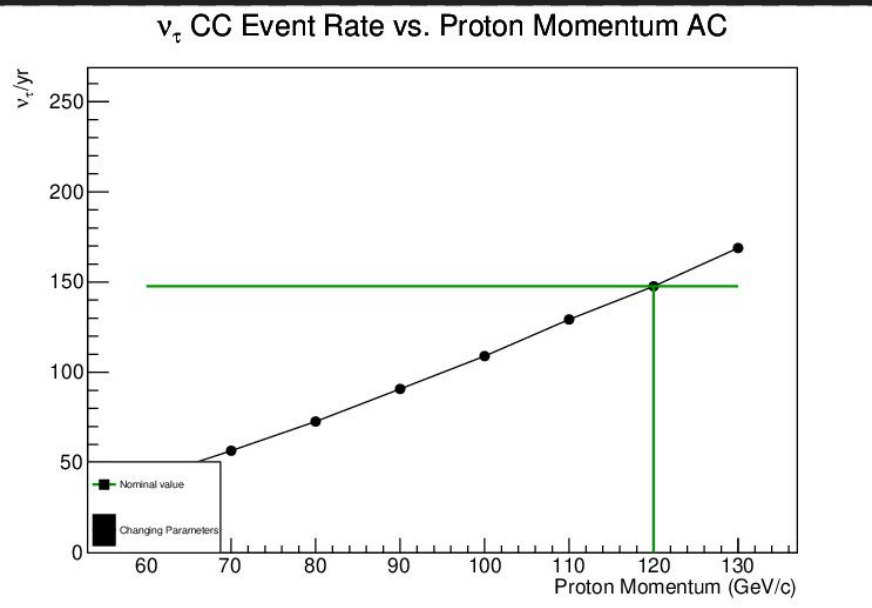
CPOptimizedAC Nu_tau/year vs Horn Current

ν_τ CC Event Rate vs. Horn Current (kA) AC



	Horn Current (kA)	taus/yr
0	200	127.270045
1	210	130.425372
2	220	130.131620
3	230	130.277539
4	240	133.221987
5	250	133.237627
6	260	137.661489
7	270	137.566573
8	280	142.264892
9	290	146.085971
10	300	150.025966

CPOptimizedAC Nu_tau/year vs Proton Momentum

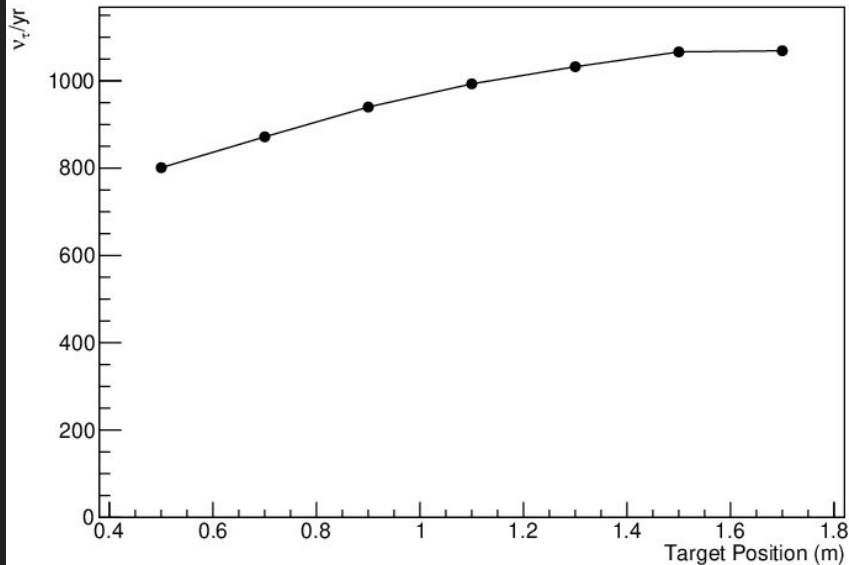


	Proton Momentum	taus/yr
0	60	41.078575
1	70	56.547121
2	80	72.732987
3	90	90.773162
4	100	108.979192
5	110	129.294904
6	120	147.651297
7	130	168.869227

CP Optimized AB

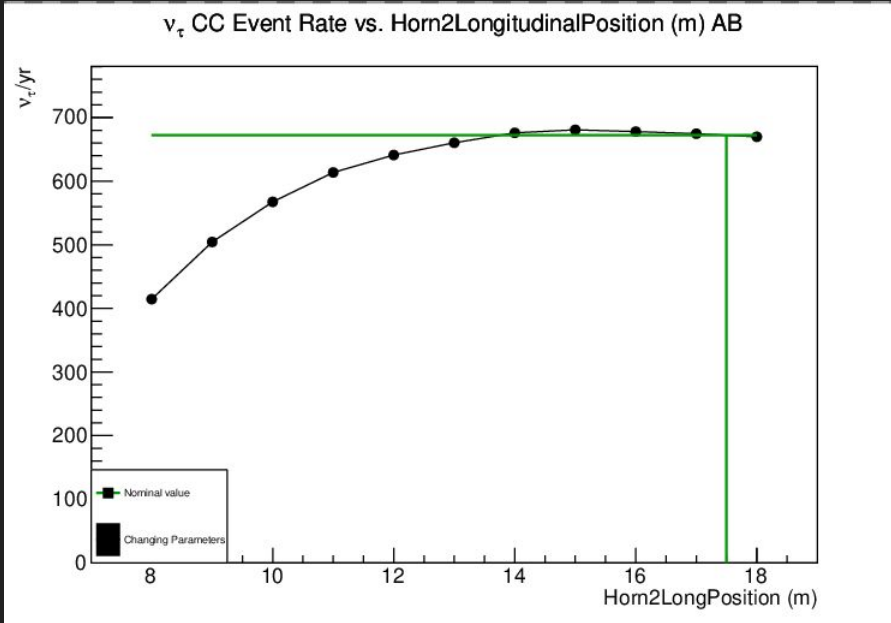
CPOptimizedAB Nu_tau/year vs Target Position

ν_τ CC Event Rate vs. Target Position



	target positions (m)	taus/yr
0	0.5	800.973627
1	0.7	871.583889
2	0.9	939.884142
3	1.1	992.948013
4	1.3	1032.220687
5	1.5	1066.119003
6	1.7	1068.800126

CPOptimizedAB Nu_tau/year vs Horn2LongPosition



	Horn2LongitudinalPosition (m)	taus/yr
0	8	414.519600
1	9	504.388032
2	10	567.446990
3	11	613.663278
4	12	641.077675
5	13	660.357163
6	14	675.968505
7	15	680.675948
8	16	677.881342
9	17	674.629207
10	18	669.754550