



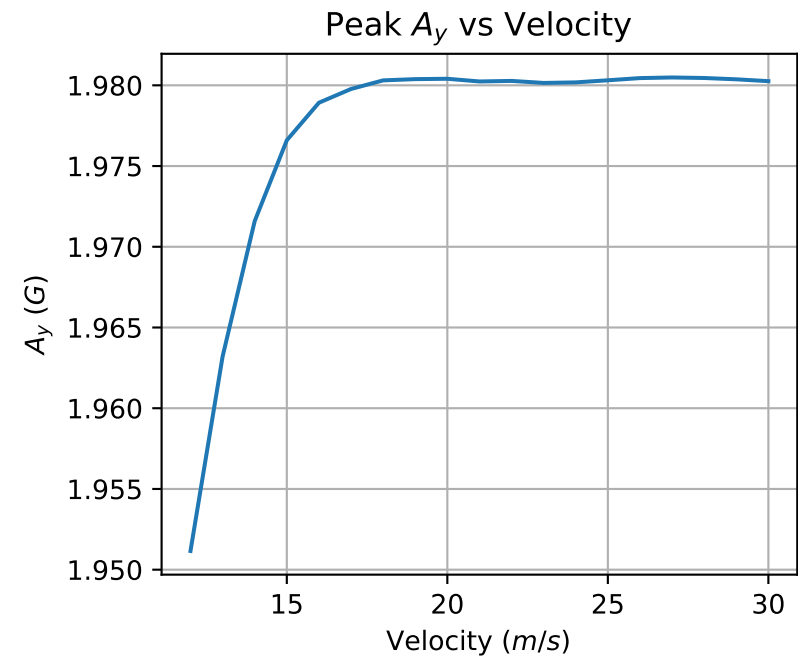
Quasi-Steady-State Report

Simulation Author: Robert Horvath

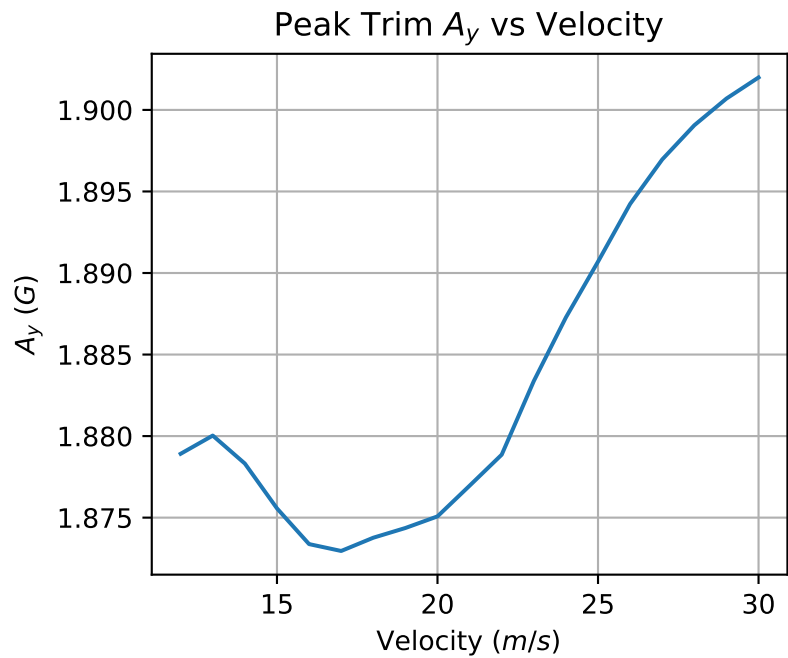
Generated By: Robert (roberthorvath5@gmail.com)

Date: 2025-06-18, 01:41 AM PDT

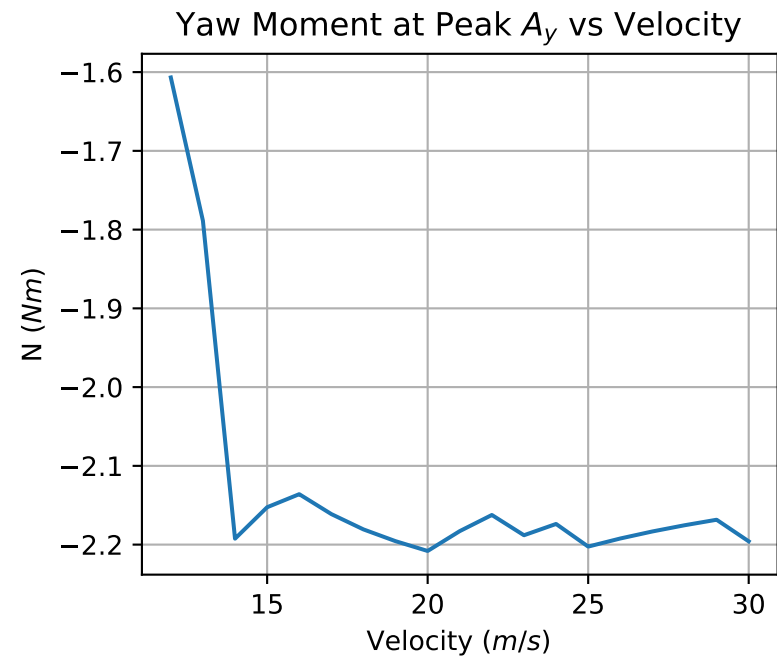
Acceleration vs Velocity



	$\frac{dA_y}{dV}$ $\left(\frac{G}{m/s}\right)$
at Min Velocity	0.014
at Avg Velocity	-0.000
at Max Velocity	-0.000

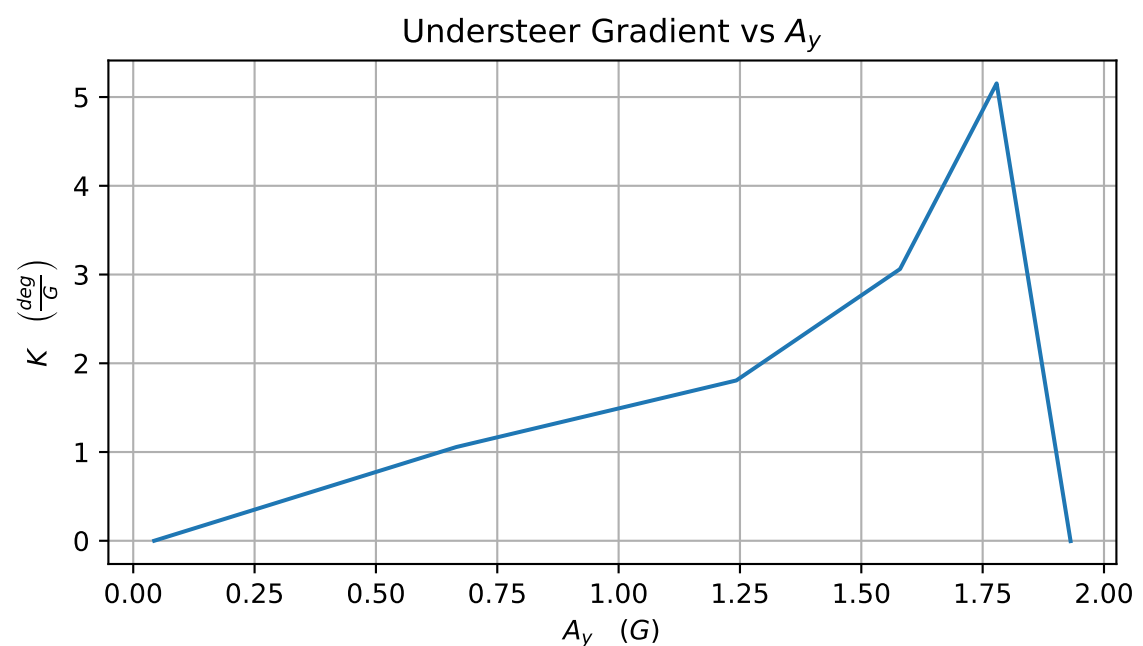
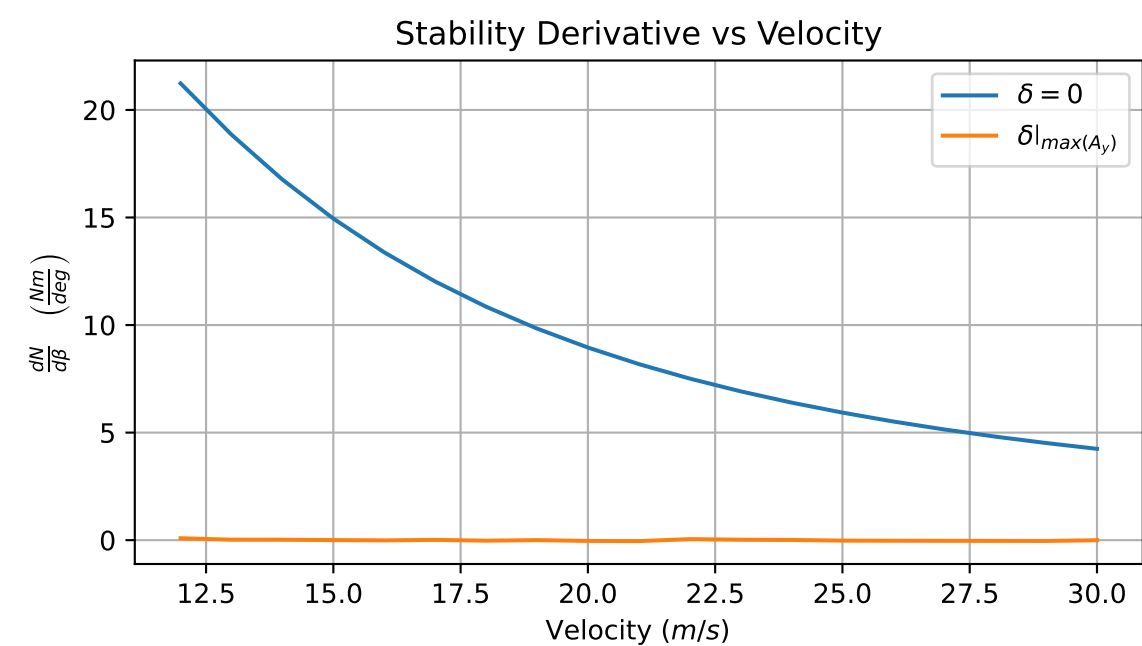
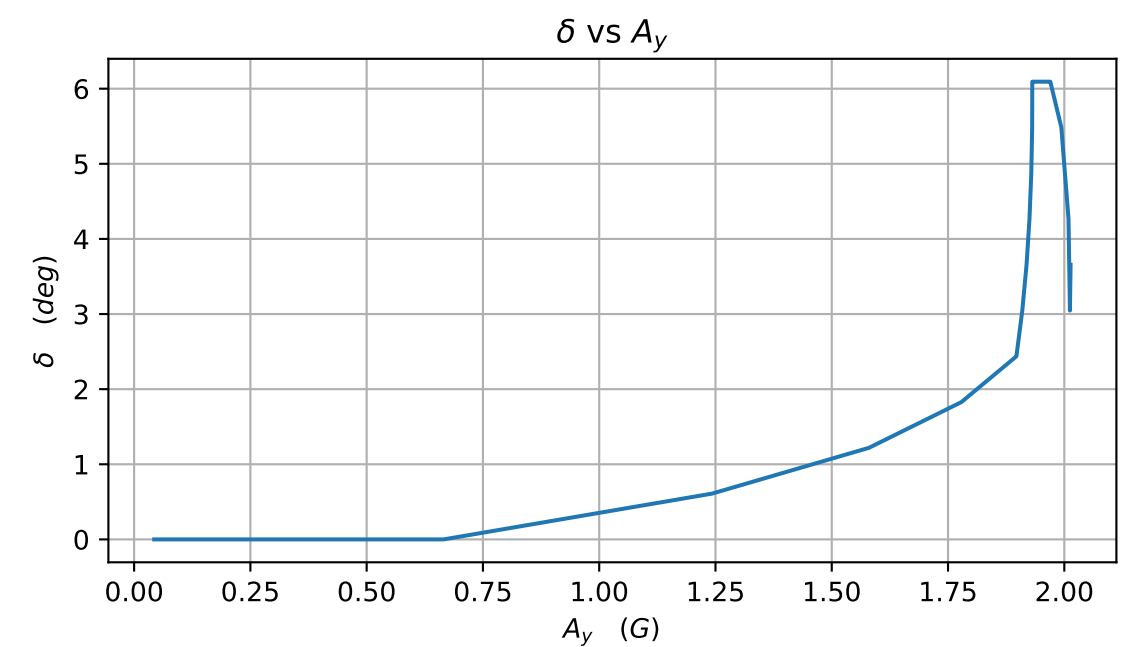
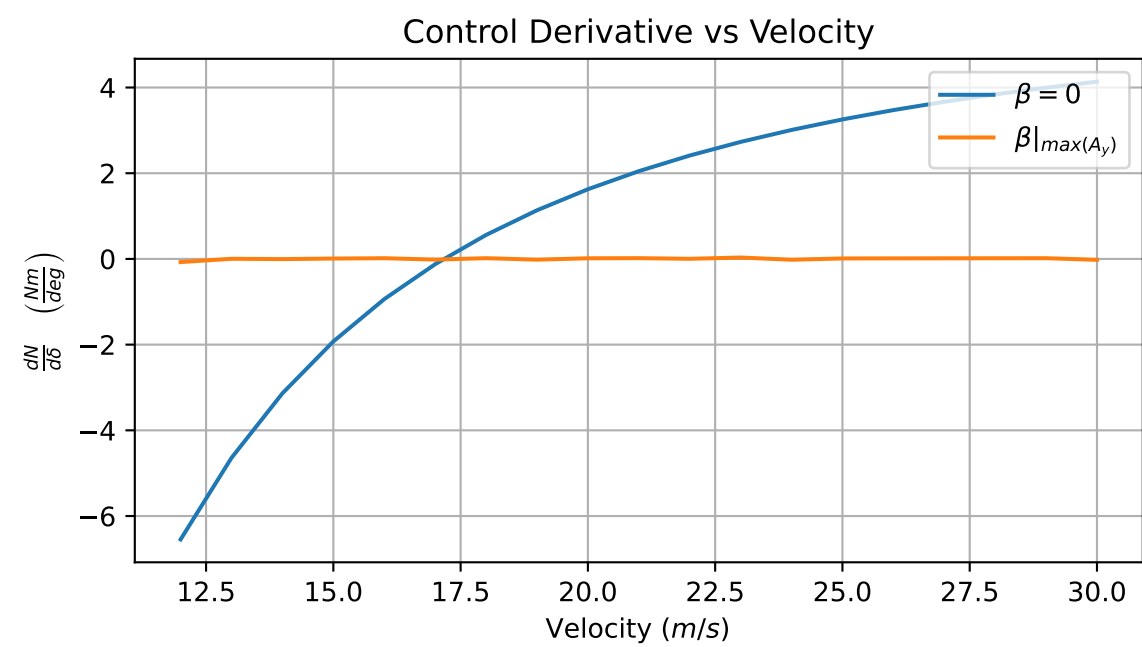


	$\frac{dA_y}{dV}$ $\left(\frac{G}{m/s}\right)$
at Min Velocity	0.003
at Avg Velocity	0.002
at Max Velocity	0.001



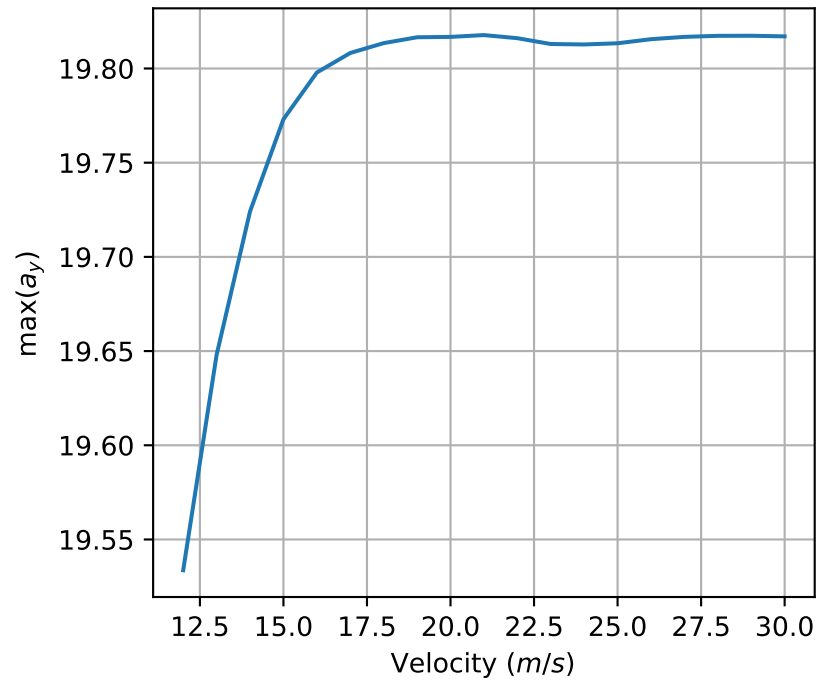
	$\frac{dN}{dV}$ $\left(\frac{Nm}{m/s}\right)$
at Min Velocity	0.027
at Avg Velocity	0.004
at Max Velocity	-0.006

Control, Stability, and Handling

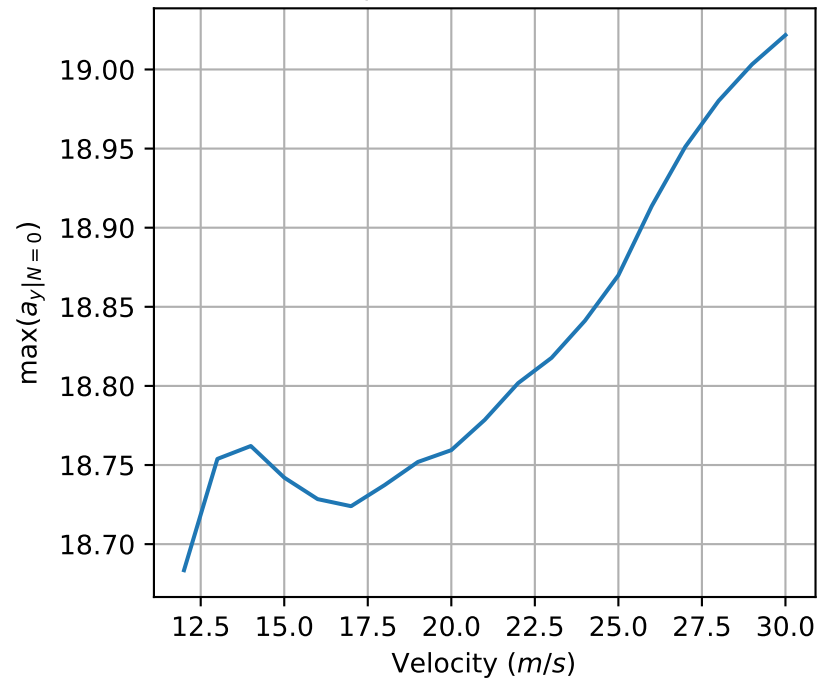


Appendix

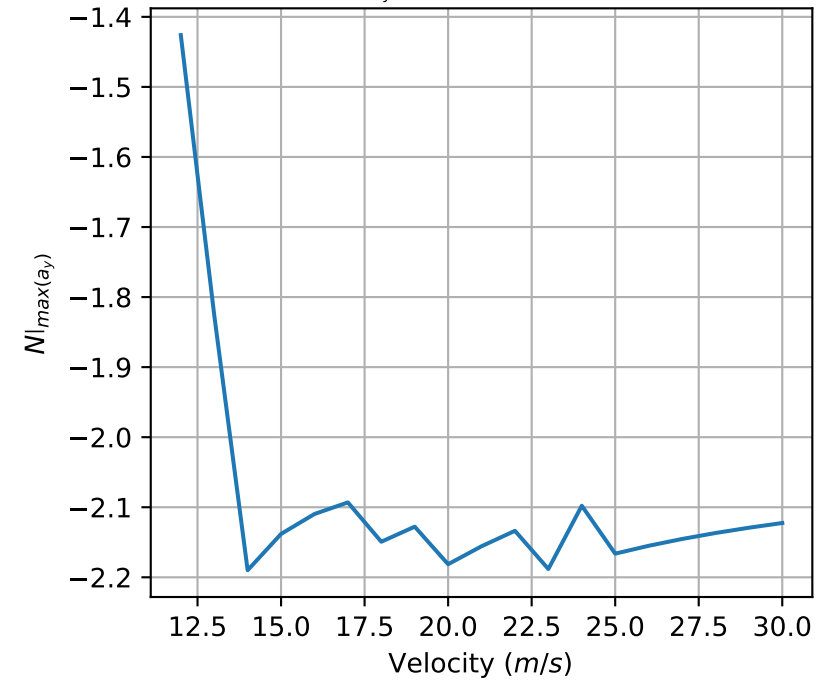
$\max(a_y)$ vs Velocity (m/s)



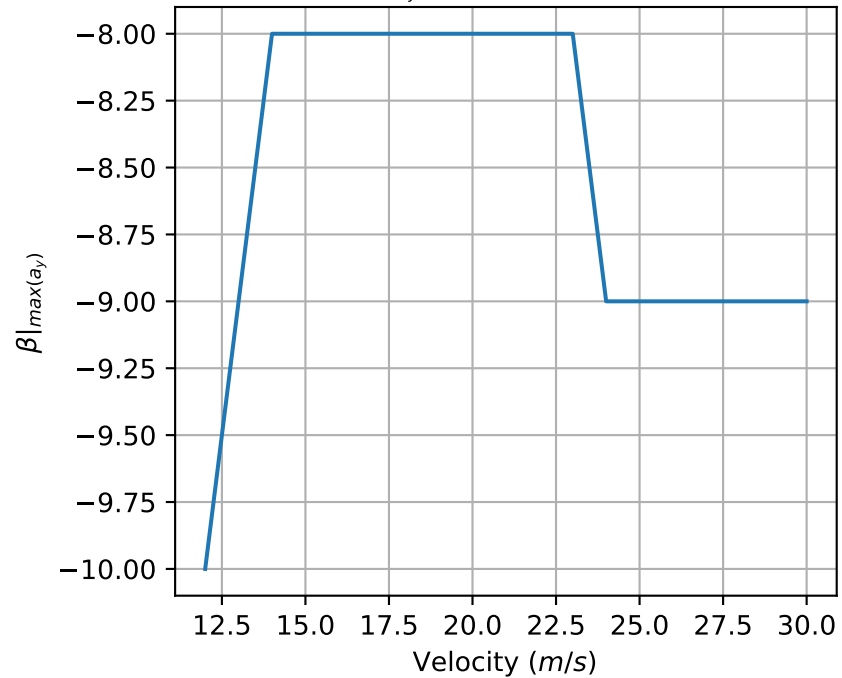
$\max(a_y|_{N=0})$ vs Velocity (m/s)



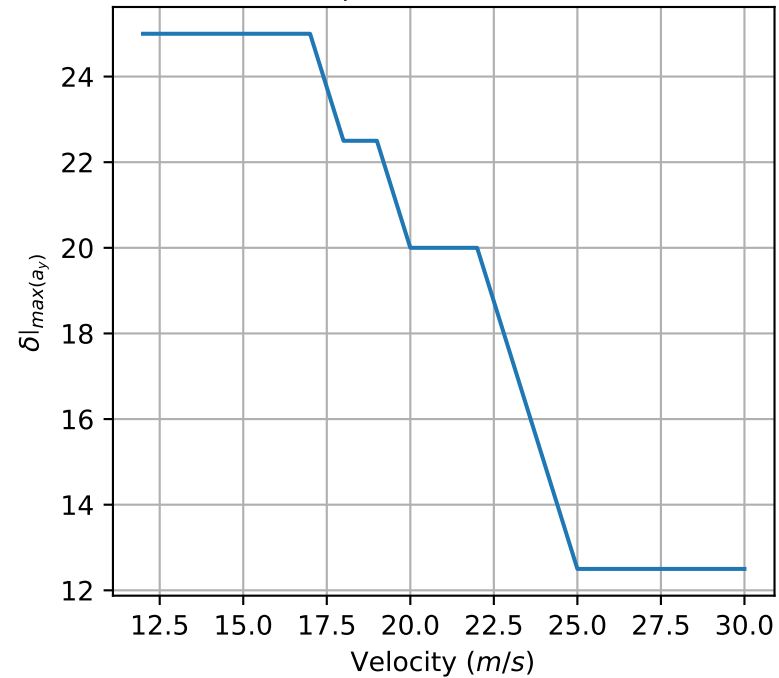
$N|_{\max(a_y)}$ vs Velocity (m/s)



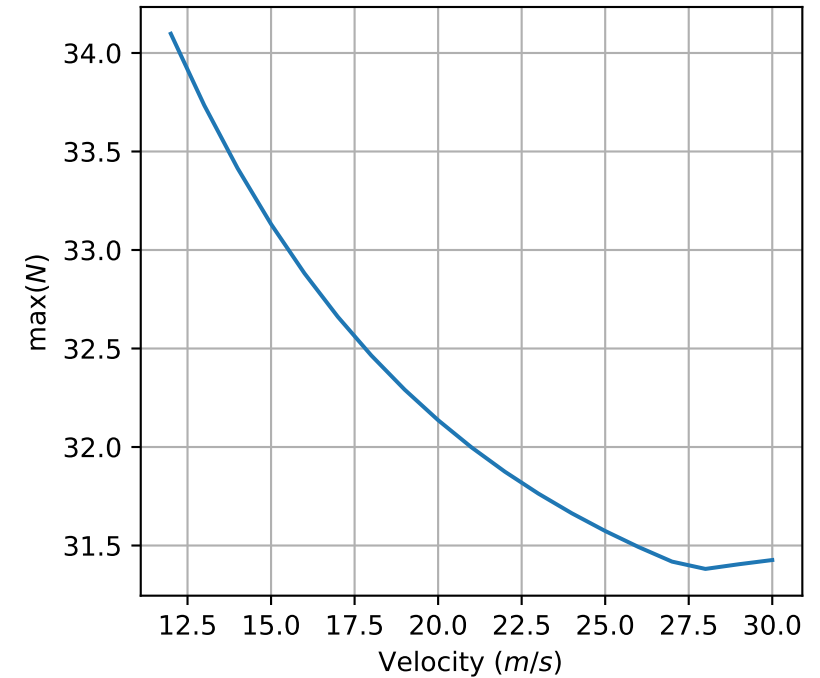
$\beta|_{\max(a_y)}$ vs Velocity (m/s)



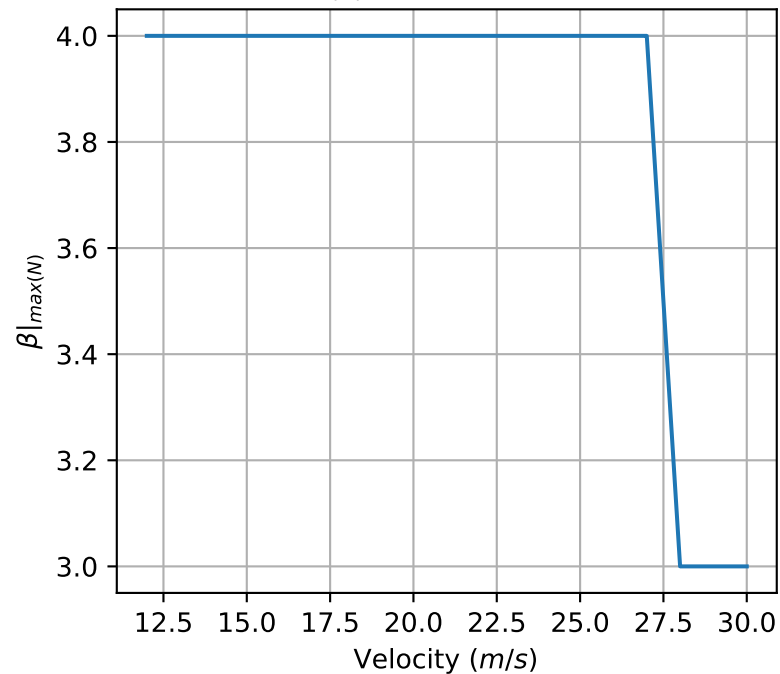
$\delta|_{\max(a_y)}$ vs Velocity (m/s)



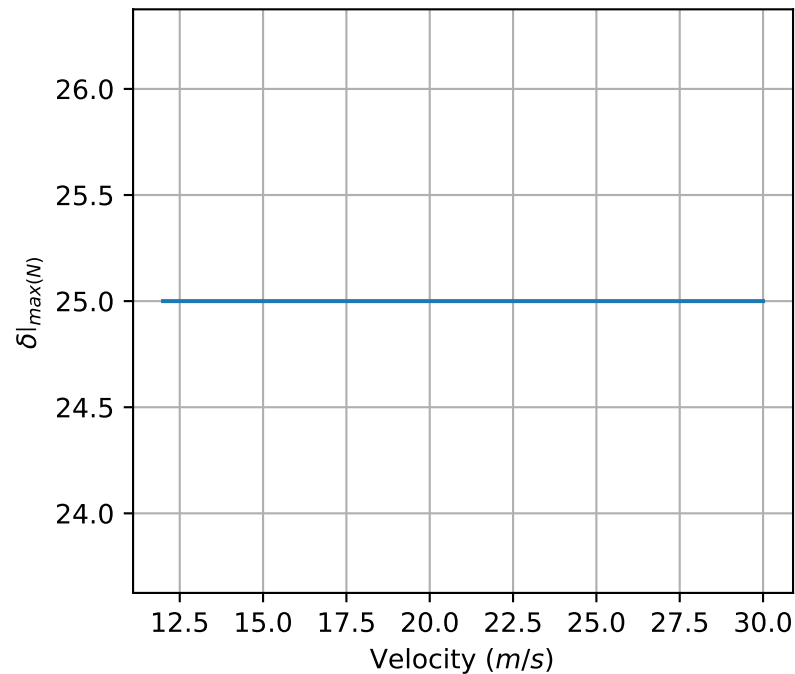
$\max(N)$ vs Velocity (m/s)



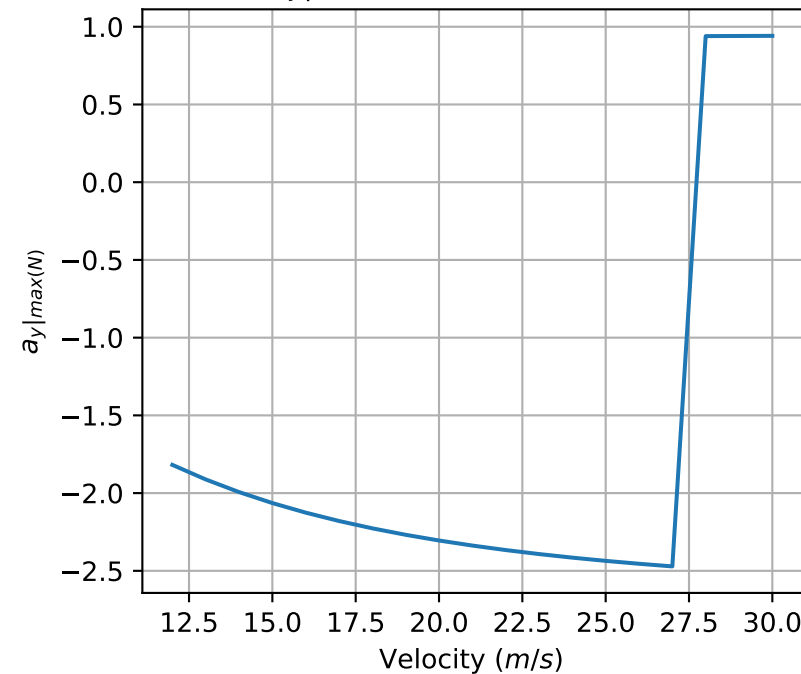
$\beta|_{\max(N)}$ vs Velocity (m/s)



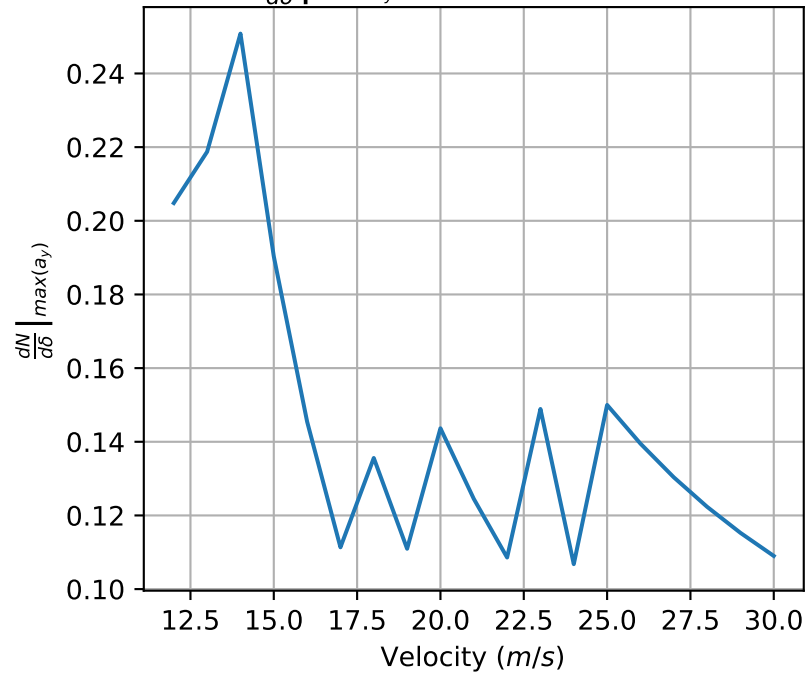
$\delta l|_{\max(N)}$ vs Velocity (m/s)



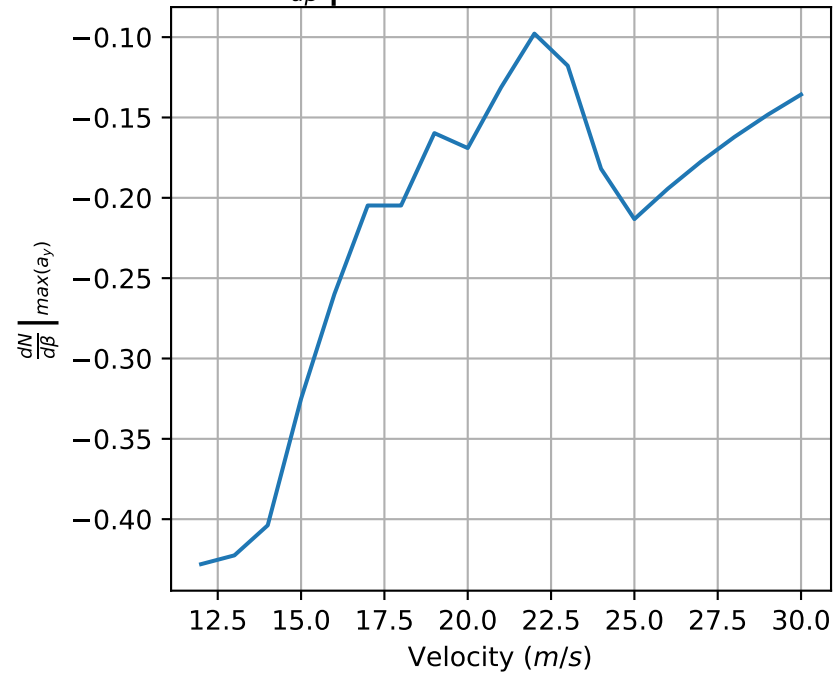
$a_y|_{\max(N)}$ vs Velocity (m/s)



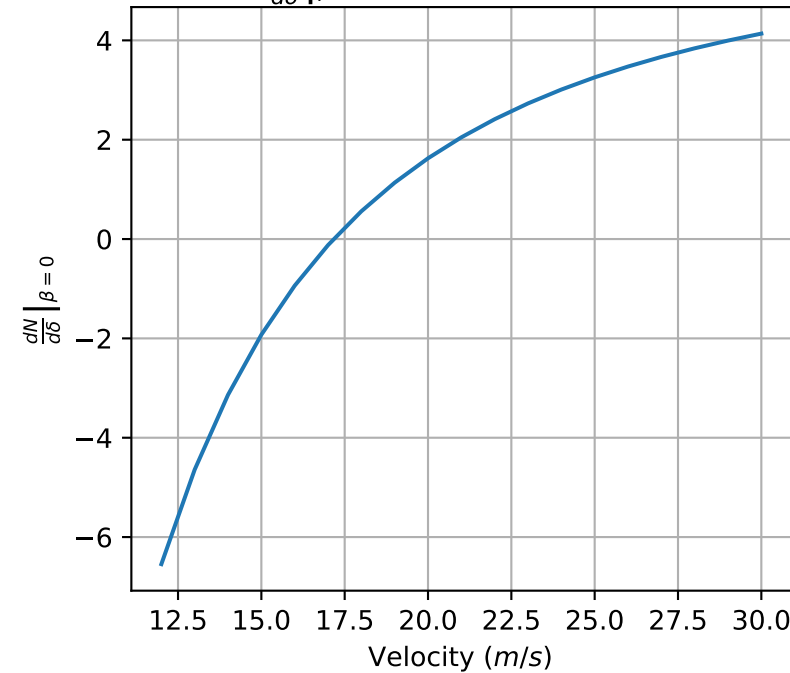
$\left. \frac{dN}{d\delta} \right|_{\max(a_y)}$ vs Velocity (m/s)



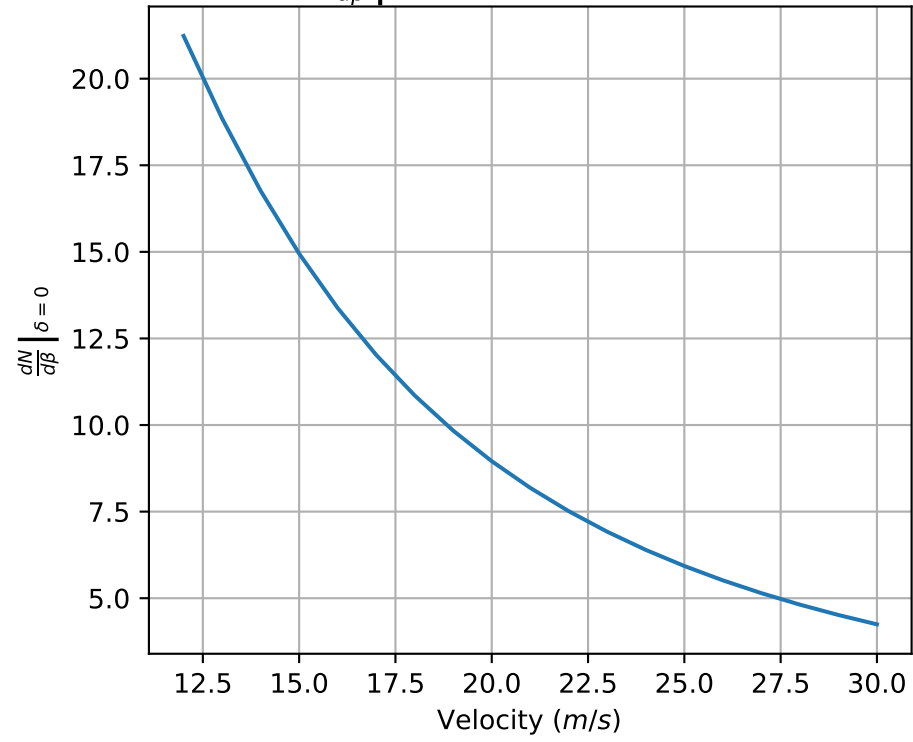
$\left. \frac{dN}{d\beta} \right|_{\max(a_y)}$ vs Velocity (m/s)

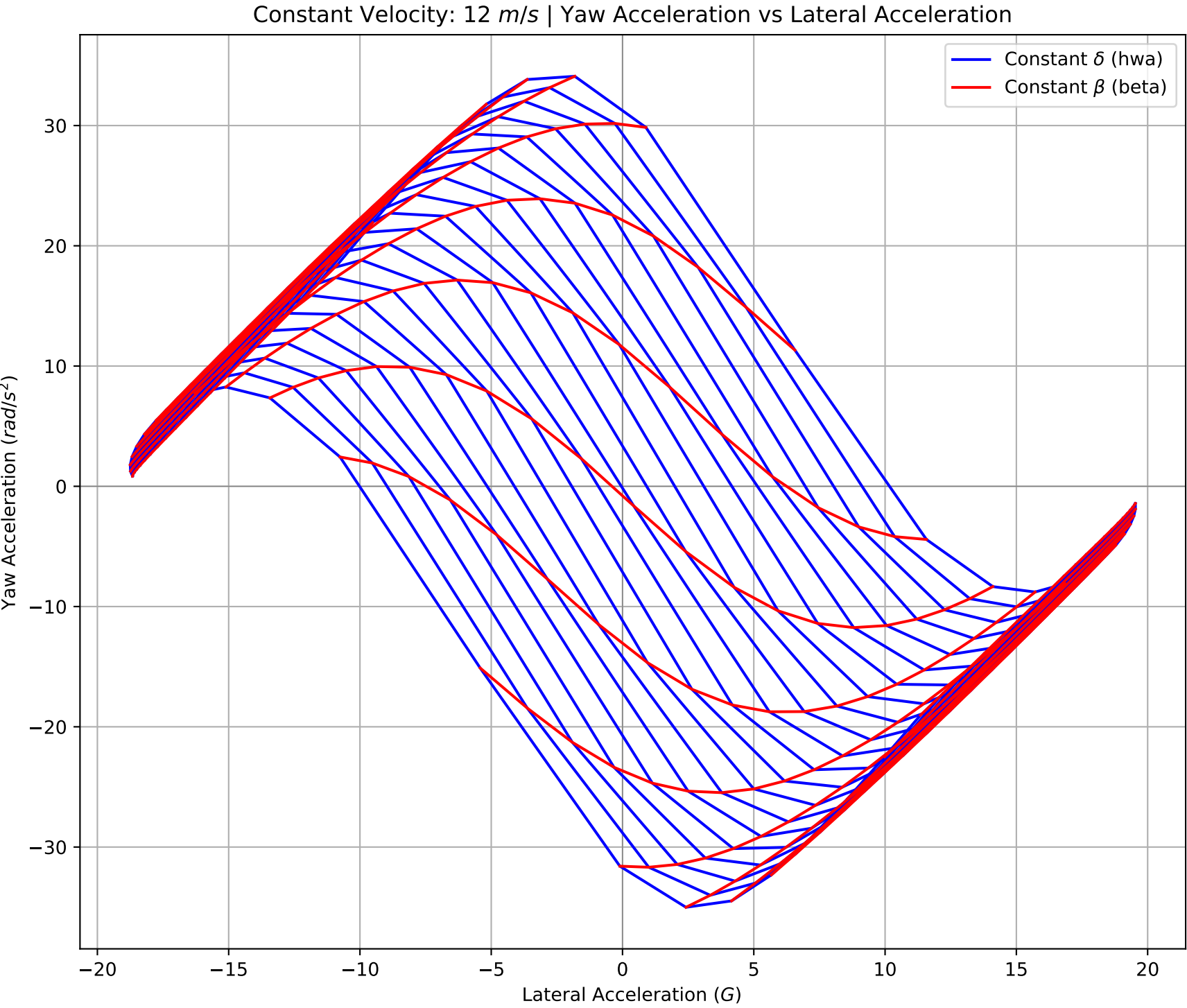


$\left. \frac{dN}{d\delta} \right|_{\beta=0}$ vs Velocity (m/s)

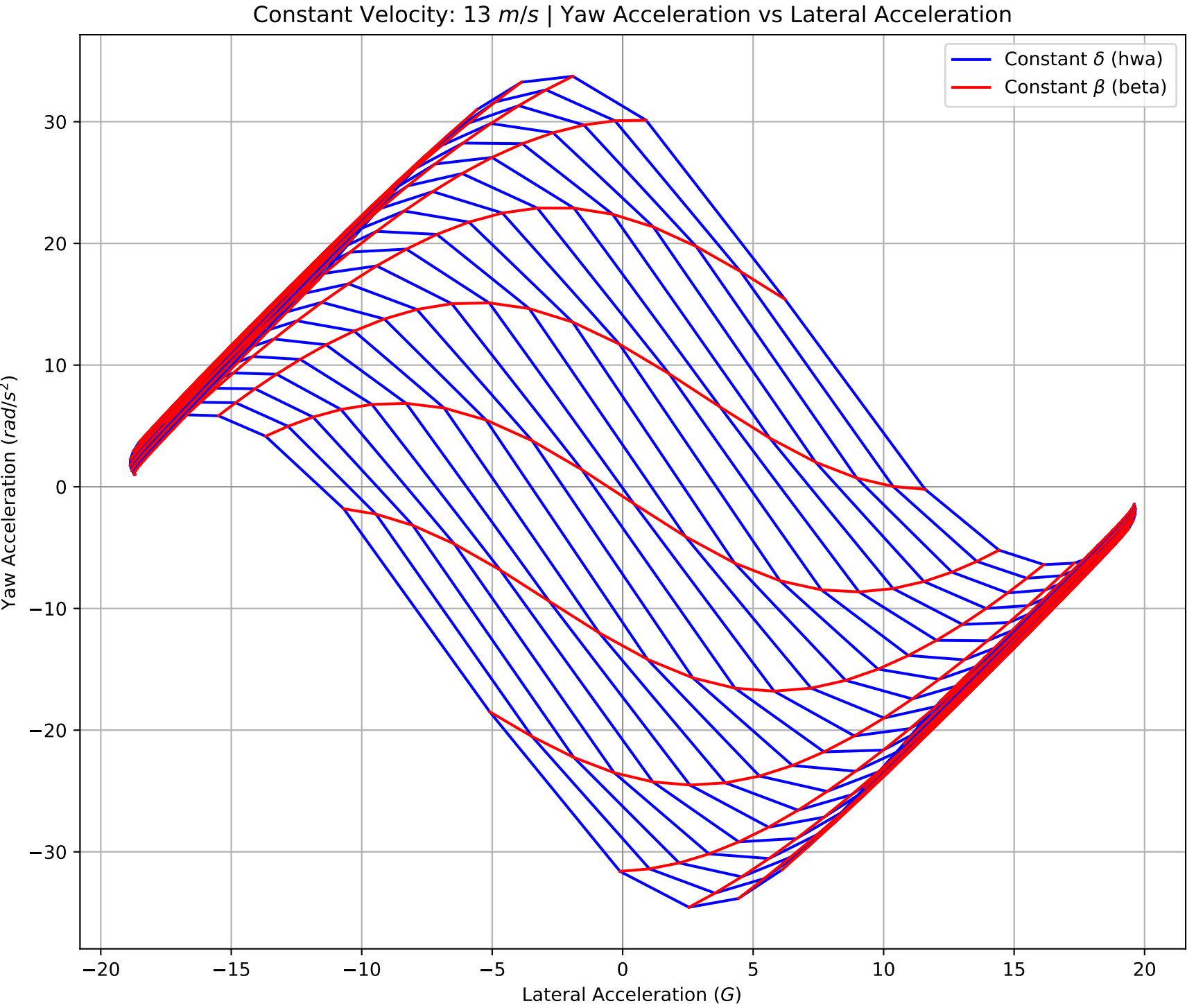


$\left. \frac{dN}{d\beta} \right|_{\delta=0}$ vs Velocity (m/s)

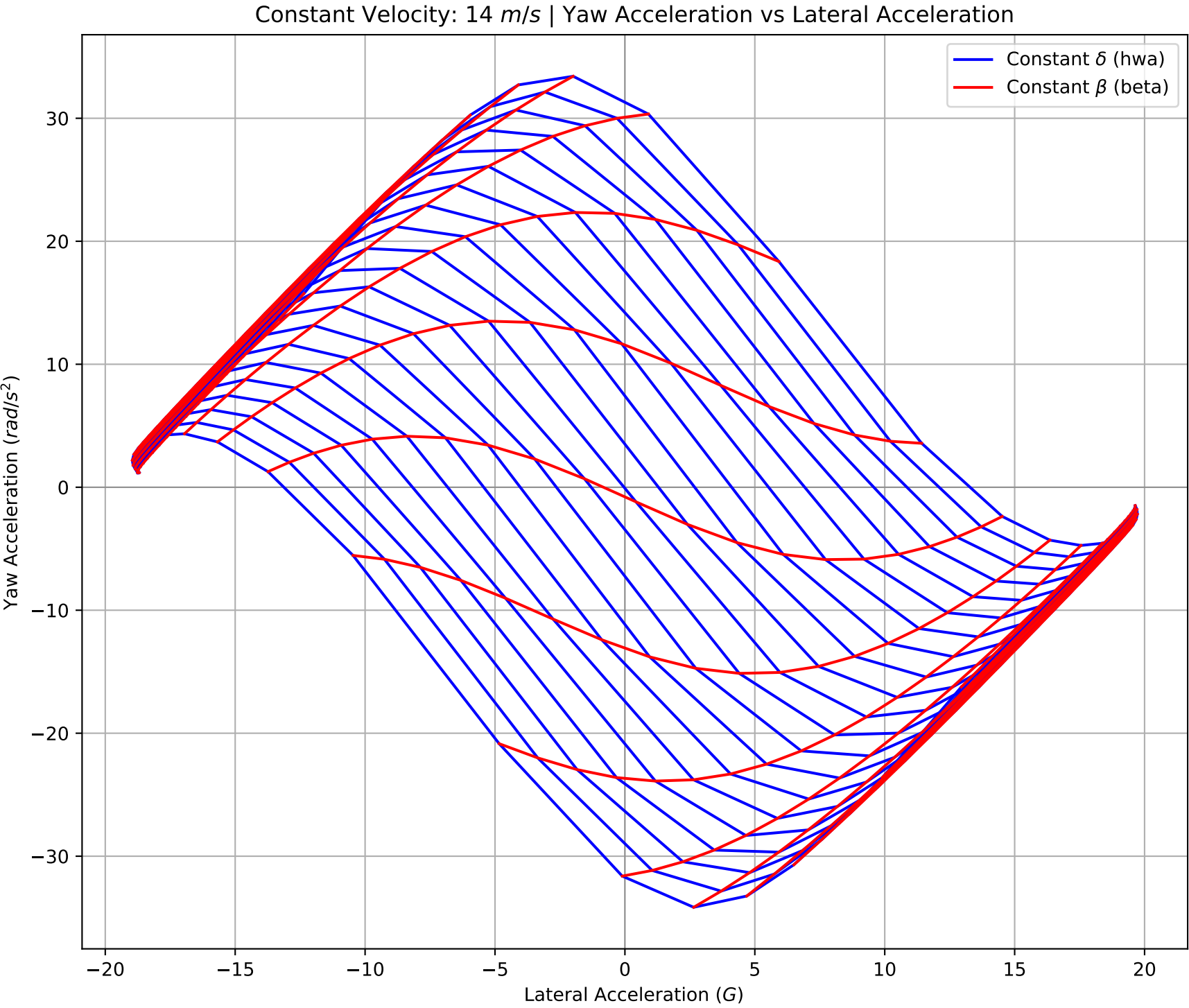




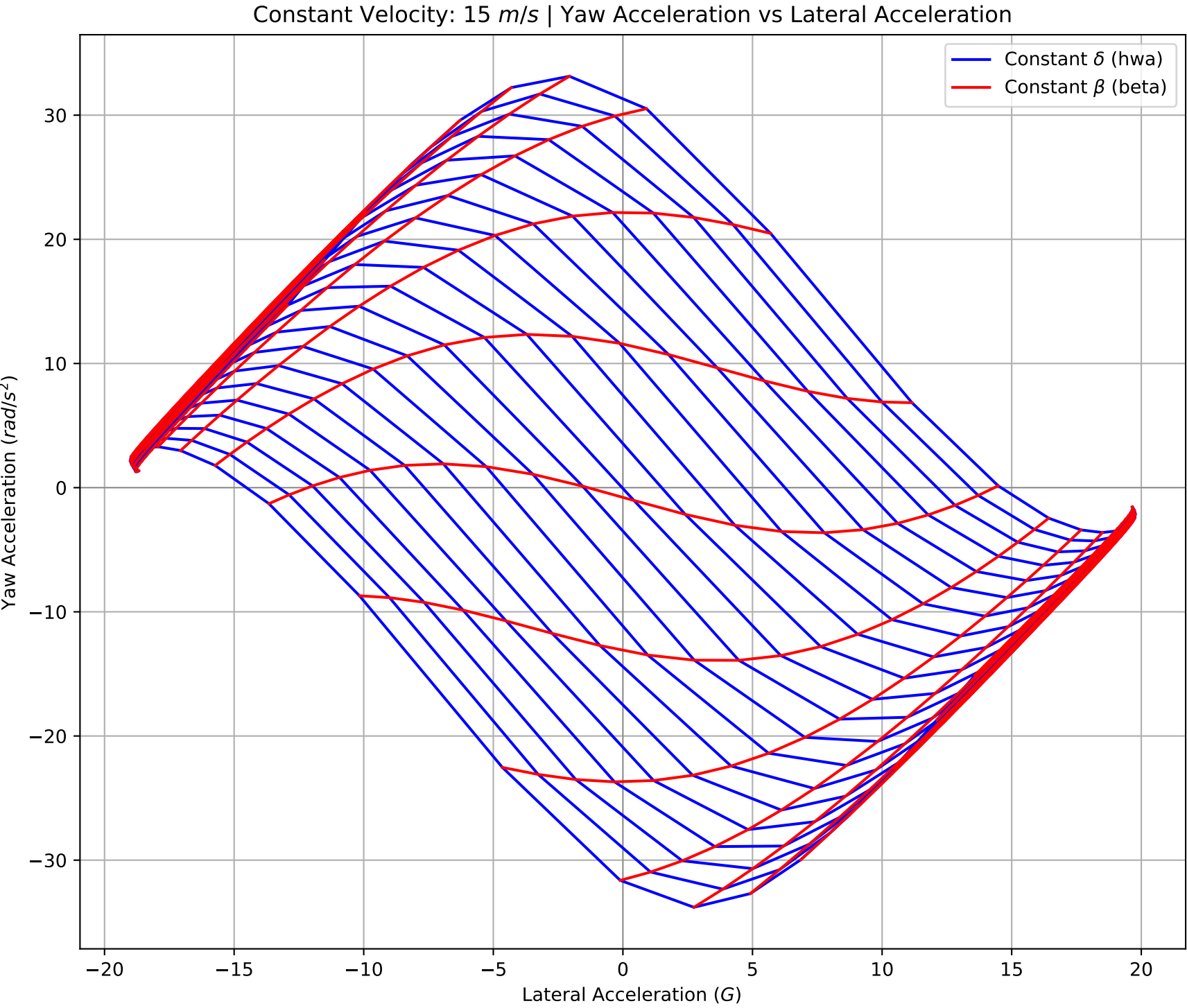
		Left Half	Right Half
$\max(a_y)$	(<i>m/s</i>)	-18.748	19.534
$\max(a_y _{N=0})$	(<i>m/s</i>)	-18.181	18.683
$N _{\max(a_y)}$	(<i>Nm</i>)	1.788	-1.426
$\beta _{\max(a_y)}$	(<i>deg</i>)	8.000	-10.000
$\delta _{\max(a_y)}$	(<i>deg</i>)	-25.000	25.000
$\max(N)$	(<i>Nm</i>)	-35.009	34.098
$\beta _{\max(N)}$	(<i>deg</i>)	-4.000	4.000
$\delta _{\max(N)}$	(<i>deg</i>)	-25.000	25.000
$a_y _{\max(N)}$	(<i>m/s</i>)	2.416	-1.818
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	($\frac{Nm}{deg}$)	0.352	0.205
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	($\frac{Nm}{deg}$)	-0.605	-0.428
$\frac{dN}{d\delta} \Big _{\beta=0}$	($\frac{Nm}{deg}$)	-6.545	
$\frac{dN}{d\beta} \Big _{\delta=0}$	($\frac{Nm}{deg}$)	21.235	



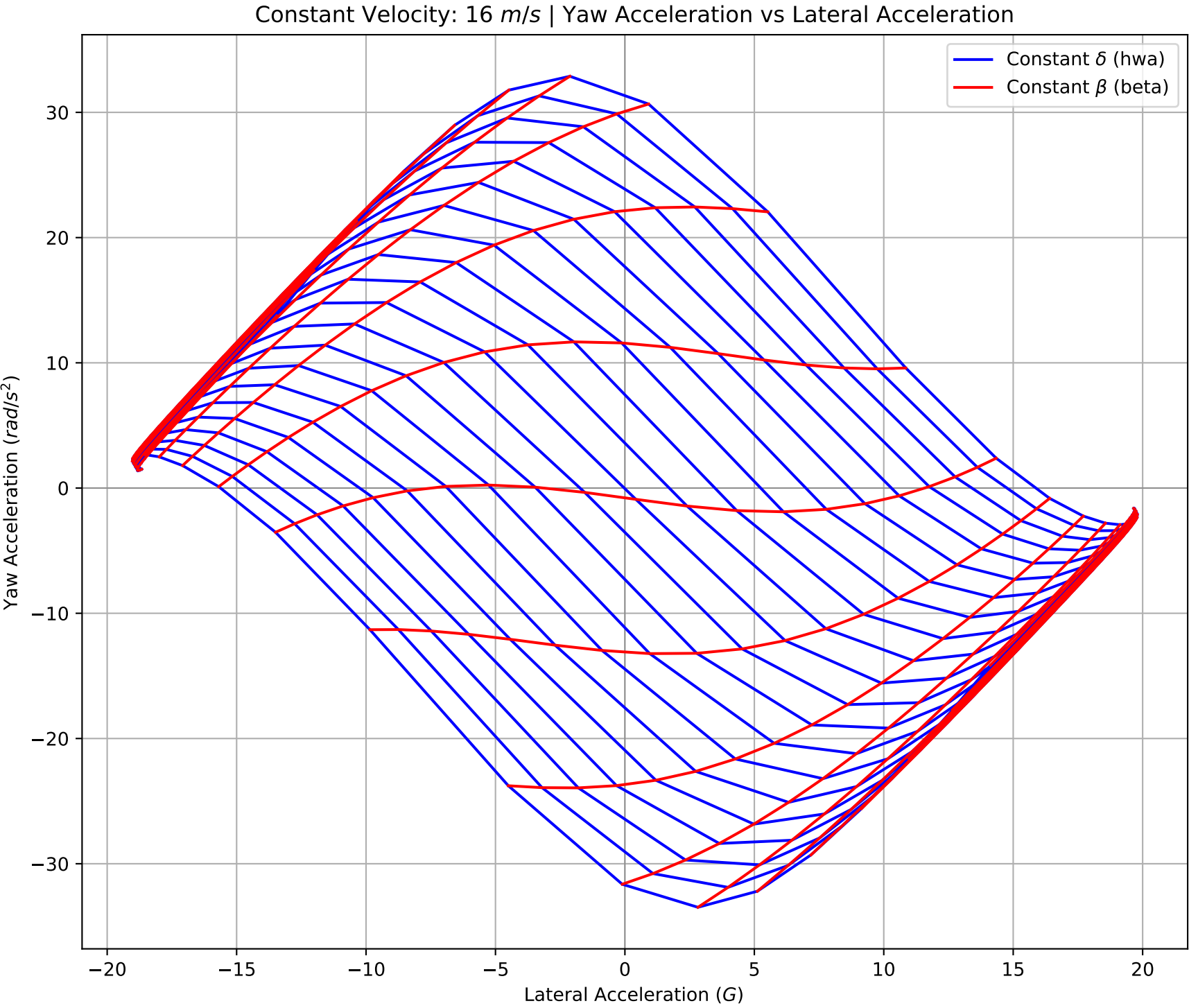
		Left Half	Right Half
$\max(a_y)$	(m/s)	-18.870	19.648
$\max(a_y _{N=0})$	(m/s)	-18.132	18.754
$N _{\max(a_y)}$	(Nm)	1.752	-1.826
$\beta _{\max(a_y)}$	(deg)	8.000	-9.000
$\delta _{\max(a_y)}$	(deg)	-25.000	25.000
$\max(N)$	(Nm)	-34.556	33.735
$\beta _{\max(N)}$	(deg)	-4.000	4.000
$\delta _{\max(N)}$	(deg)	-25.000	25.000
$a_y _{\max(N)}$	(m/s)	2.539	-1.912
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	($\frac{Nm}{deg}$)	0.213	0.219
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	($\frac{Nm}{deg}$)	-0.467	-0.423
$\frac{dN}{d\delta} \Big _{\beta=0}$	($\frac{Nm}{deg}$)	-4.642	
$\frac{dN}{d\beta} \Big _{\delta=0}$	($\frac{Nm}{deg}$)	18.851	



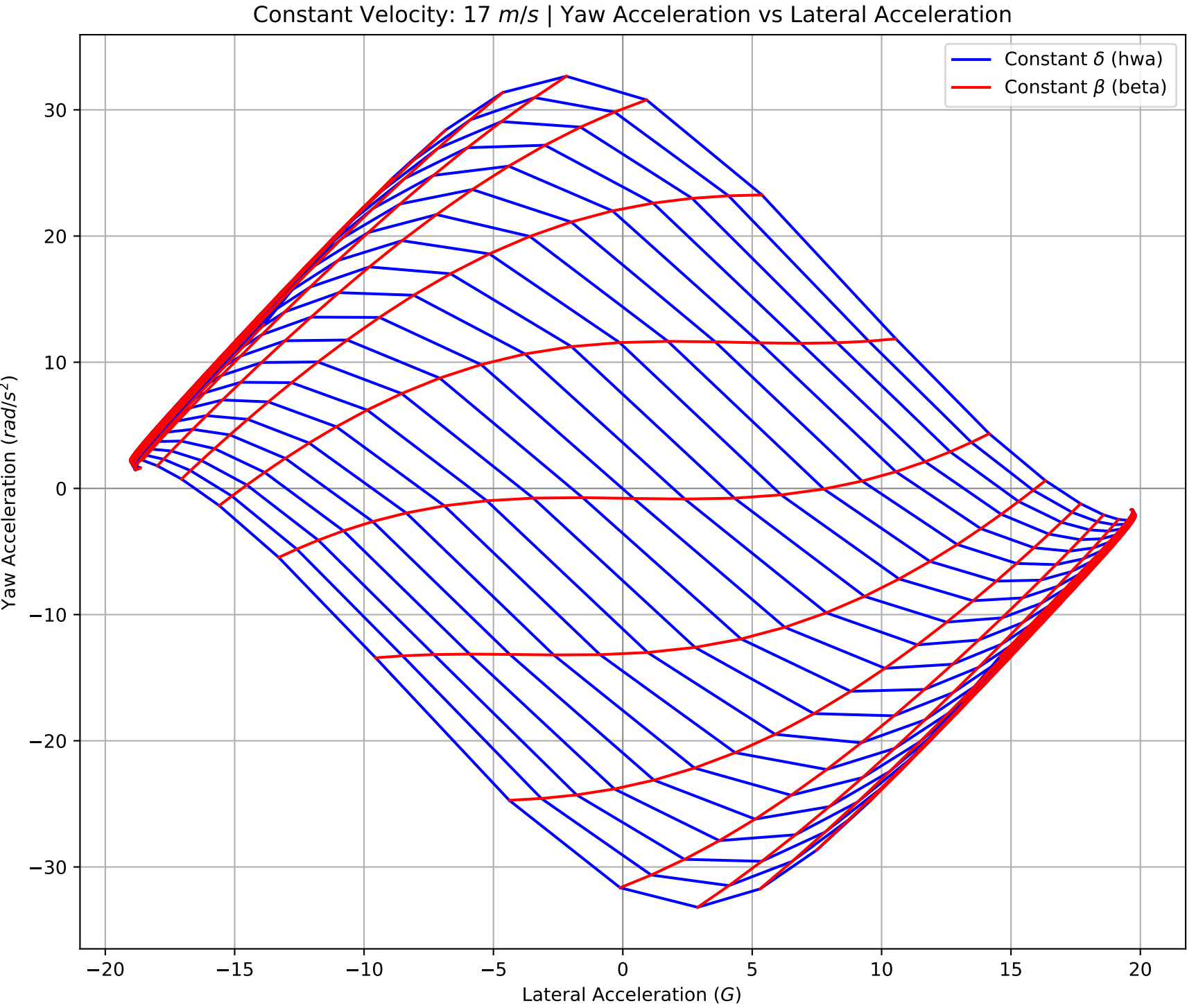
		Left Half	Right Half
$\max(a_y)$	(m/s)	-18.958	19.724
$\max(a_y _{N=0})$	(m/s)	-18.091	18.762
$N _{\max(a_y)}$	(Nm)	2.195	-2.190
$\beta _{\max(a_y)}$	(deg)	7.000	-8.000
$\delta _{\max(a_y)}$	(deg)	-25.000	25.000
$\max(N)$	(Nm)	-34.153	33.414
$\beta _{\max(N)}$	(deg)	-4.000	4.000
$\delta _{\max(N)}$	(deg)	-25.000	25.000
$a_y _{\max(N)}$	(m/s)	2.646	-1.993
$\frac{dN}{d\delta} _{\max(a_y)}$	($\frac{Nm}{deg}$)	0.259	0.251
$\frac{dN}{d\beta} _{\max(a_y)}$	($\frac{Nm}{deg}$)	-0.444	-0.404
$\frac{dN}{d\delta} _{\beta=0}$	($\frac{Nm}{deg}$)	-3.136	
$\frac{dN}{d\beta} _{\delta=0}$	($\frac{Nm}{deg}$)	16.763	



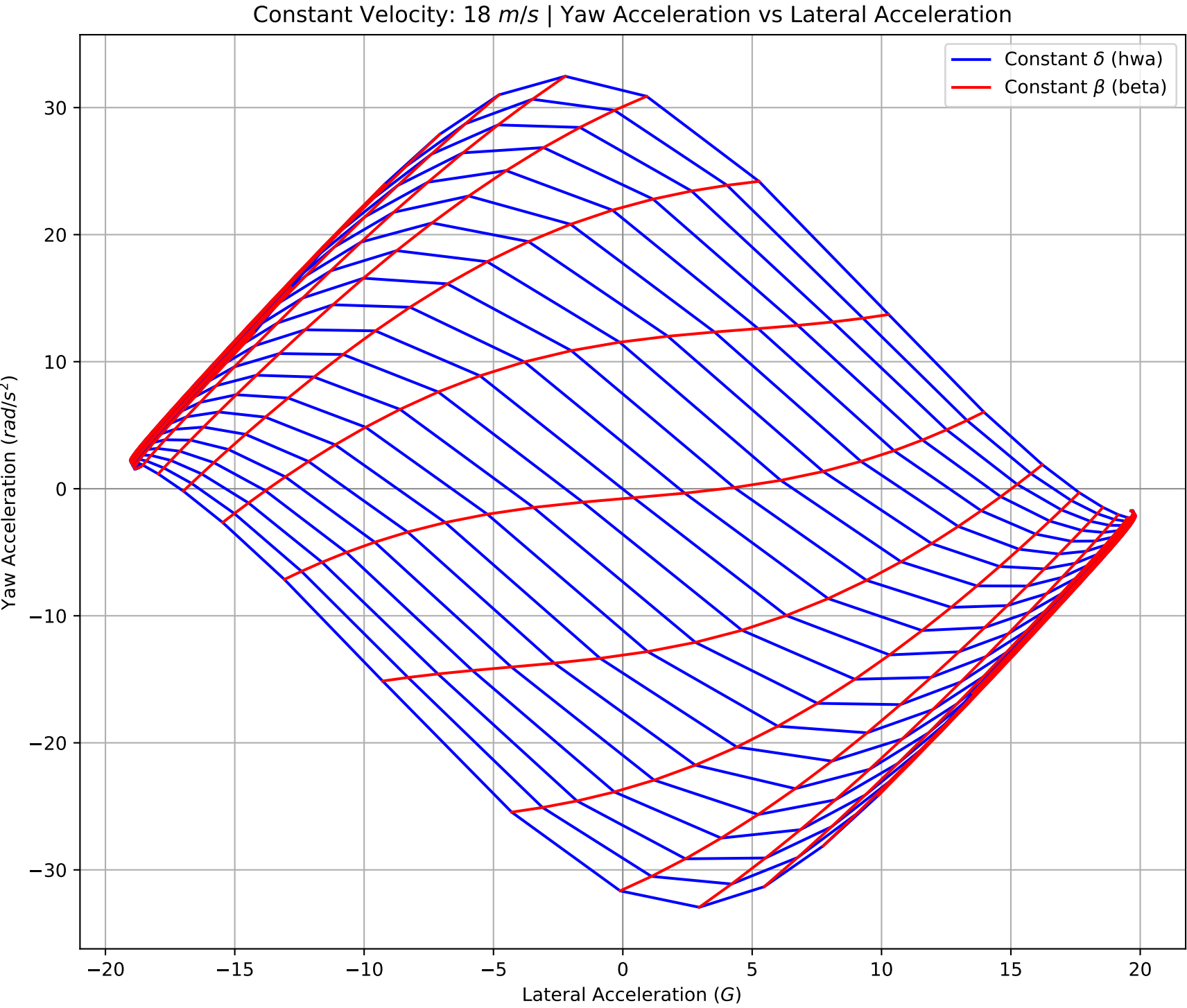
		Left Half	Right Half
$\max(a_y)$	(m/s)	-19.008	19.773
$\max(a_y _{N=0})$	(m/s)	-18.057	18.742
$N _{\max(a_y)}$	(Nm)	2.167	-2.138
$\beta _{\max(a_y)}$	(deg)	7.000	-8.000
$\delta _{\max(a_y)}$	(deg)	-25.000	25.000
$\max(N)$	(Nm)	-33.795	33.131
$\beta _{\max(N)}$	(deg)	-4.000	4.000
$\delta _{\max(N)}$	(deg)	-25.000	25.000
$a_y _{\max(N)}$	(m/s)	2.740	-2.064
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	($\frac{Nm}{deg}$)	0.174	0.190
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	($\frac{Nm}{deg}$)	-0.332	-0.325
$\frac{dN}{d\delta} \Big _{\beta=0}$	($\frac{Nm}{deg}$)	-1.926	
$\frac{dN}{d\beta} \Big _{\delta=0}$	($\frac{Nm}{deg}$)	14.949	



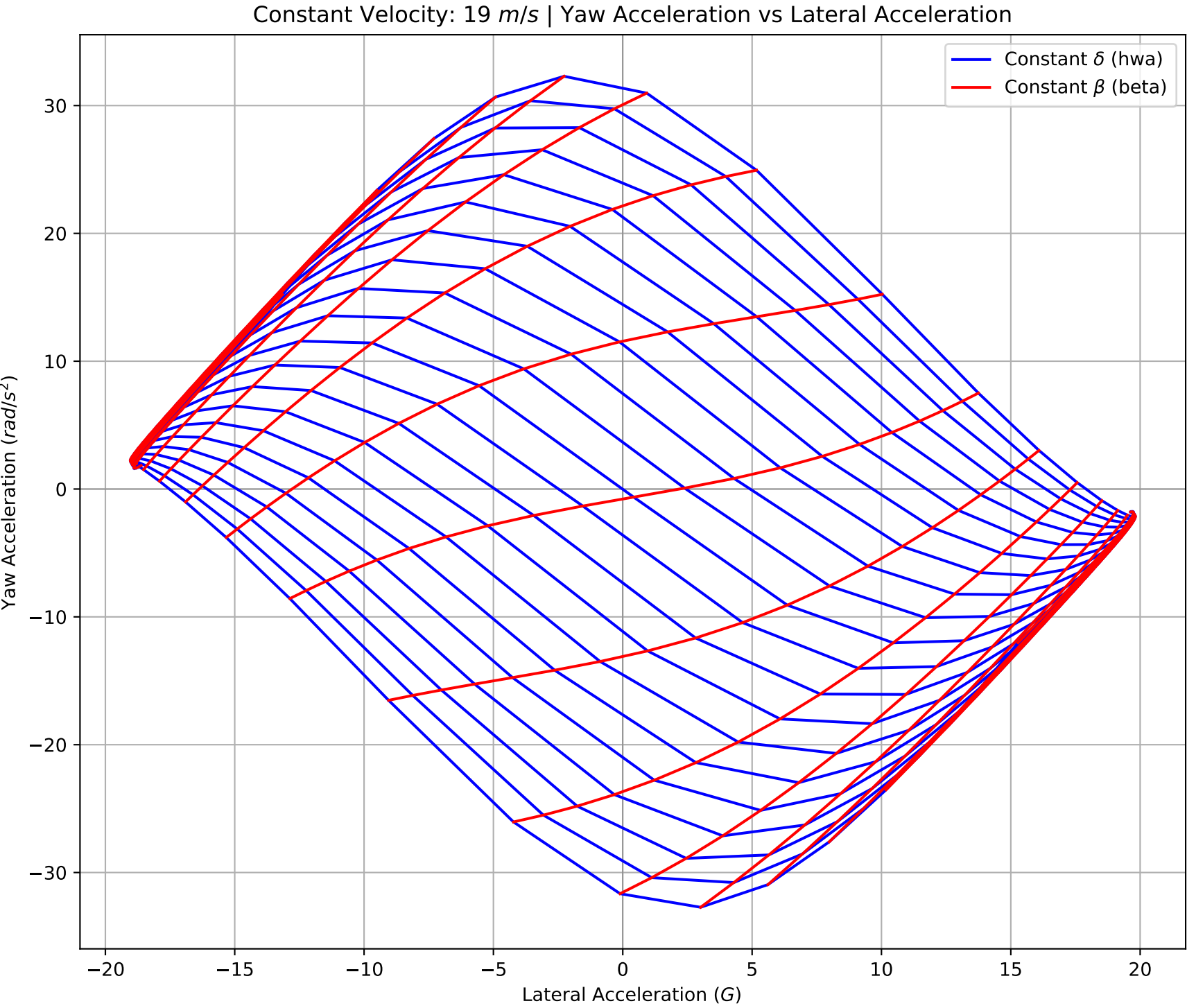
		Left Half	Right Half
$\max(a_y)$	(m/s)	-19.029	19.798
$\max(a_y _{N=0})$	(m/s)	-18.027	18.728
$N _{\max(a_y)}$	(Nm)	2.162	-2.110
$\beta _{\max(a_y)}$	(deg)	7.000	-8.000
$\delta _{\max(a_y)}$	(deg)	-25.000	25.000
$\max(N)$	(Nm)	-33.477	32.882
$\beta _{\max(N)}$	(deg)	-4.000	4.000
$\delta _{\max(N)}$	(deg)	-25.000	25.000
$a_y _{\max(N)}$	(m/s)	2.821	-2.126
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	($\frac{Nm}{deg}$)	0.112	0.145
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	($\frac{Nm}{deg}$)	-0.240	-0.260
$\frac{dN}{d\delta} \Big _{\beta=0}$	($\frac{Nm}{deg}$)	-0.939	
$\frac{dN}{d\beta} \Big _{\delta=0}$	($\frac{Nm}{deg}$)	13.380	



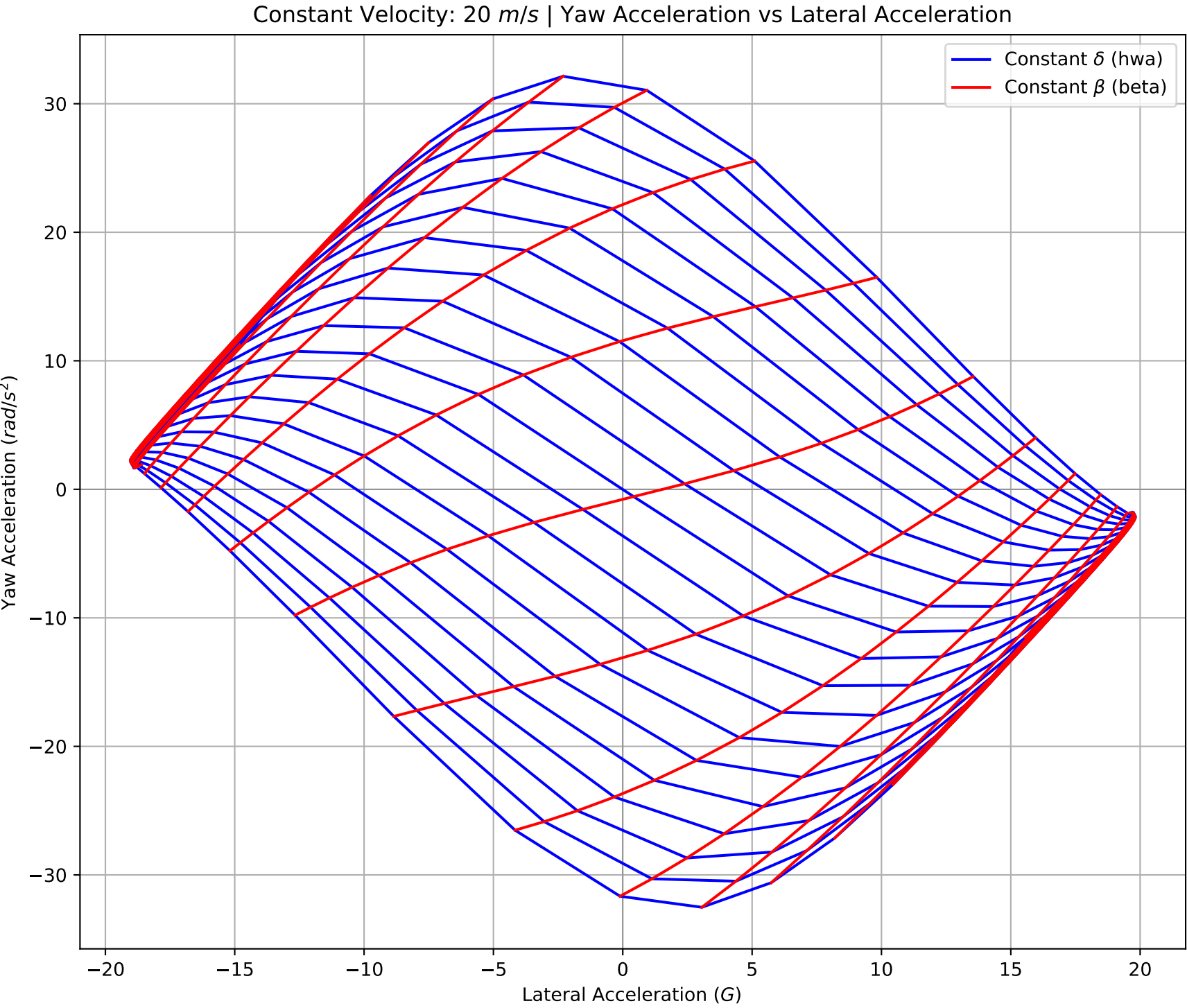
		Left Half	Right Half
$\max(a_y)$	(m/s)	-19.035	19.808
$\max(a_y _{N=0})$	(m/s)	-18.023	18.724
$N _{\max(a_y)}$	(Nm)	2.229	-2.093
$\beta _{\max(a_y)}$	(deg)	7.000	-8.000
$\delta _{\max(a_y)}$	(deg)	-22.500	25.000
$\max(N)$	(Nm)	-33.195	32.661
$\beta _{\max(N)}$	(deg)	-4.000	4.000
$\delta _{\max(N)}$	(deg)	-25.000	25.000
$a_y _{\max(N)}$	(m/s)	2.892	-2.179
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	0.143	0.111
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	-0.231	-0.205
$\frac{dN}{d\delta} \Big _{\beta=0}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	-0.123	
$\frac{dN}{d\beta} \Big _{\delta=0}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	12.025	



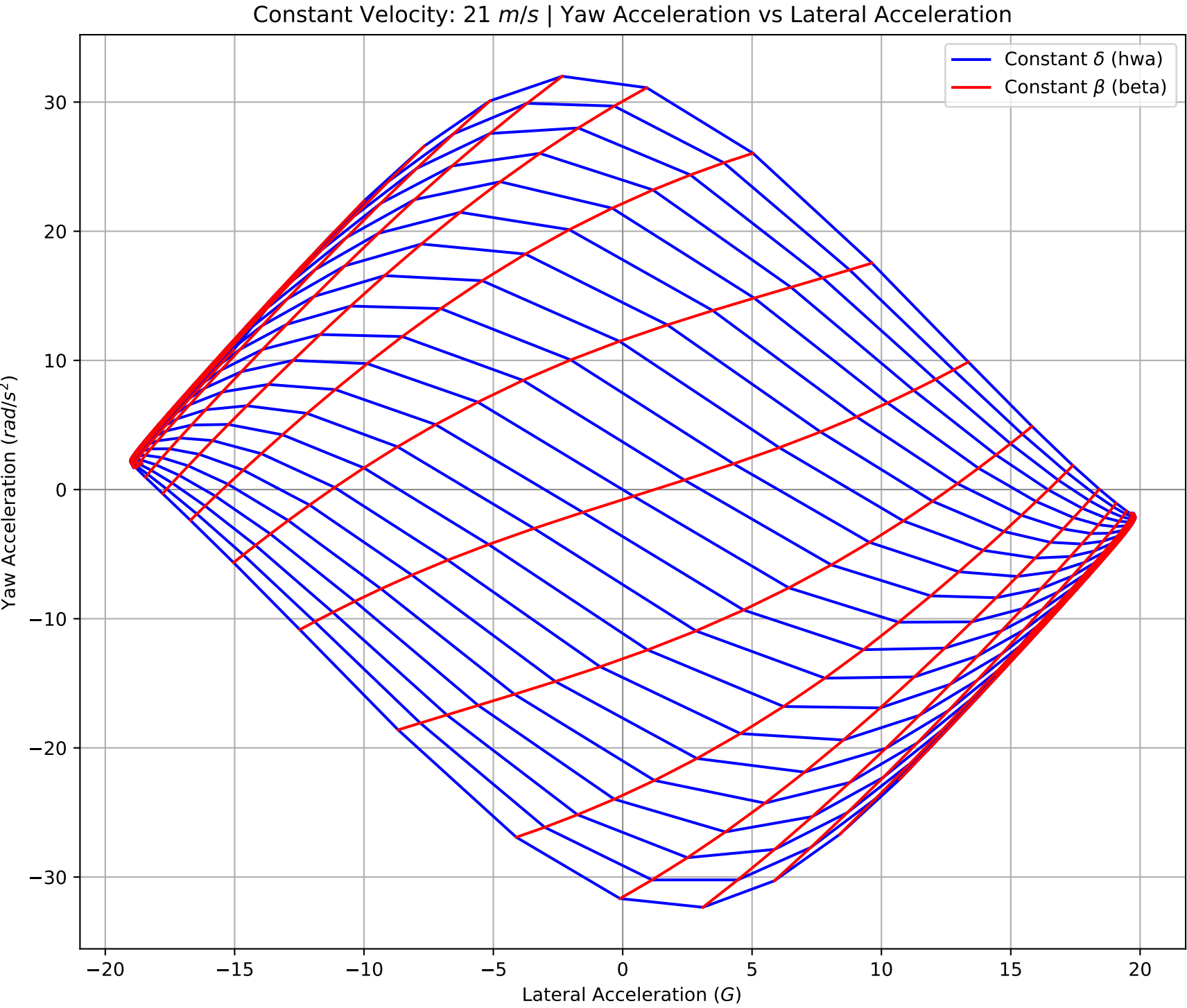
		Left Half	Right Half
$\max(a_y)$	(m/s)	-19.040	19.813
$\max(a_y _{N=0})$	(m/s)	-18.026	18.737
$N _{\max(a_y)}$	(Nm)	2.212	-2.149
$\beta _{\max(a_y)}$	(deg)	7.000	-8.000
$\delta _{\max(a_y)}$	(deg)	-22.500	22.500
$\max(N)$	(Nm)	-32.944	32.465
$\beta _{\max(N)}$	(deg)	-4.000	4.000
$\delta _{\max(N)}$	(deg)	-25.000	25.000
$a_y _{\max(N)}$	(m/s)	2.954	-2.227
$\frac{dN}{d\delta} _{\max(a_y)}$	($\frac{Nm}{deg}$)	0.101	0.136
$\frac{dN}{d\beta} _{\max(a_y)}$	($\frac{Nm}{deg}$)	-0.156	-0.205
$\frac{dN}{d\delta} _{\beta=0}$	($\frac{Nm}{deg}$)	0.559	
$\frac{dN}{d\beta} _{\delta=0}$	($\frac{Nm}{deg}$)	10.853	



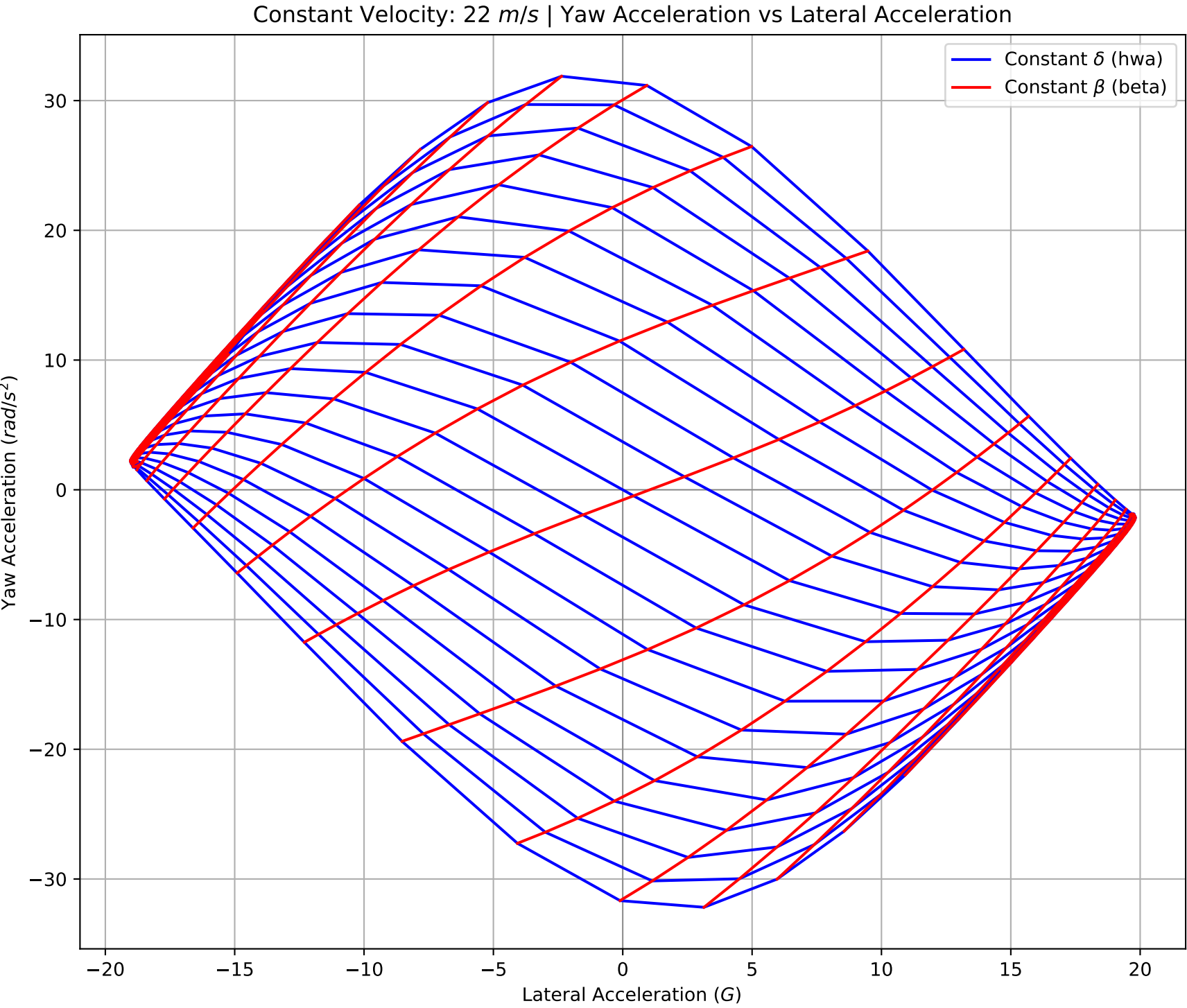
		Left Half	Right Half
$\max(a_y)$	(m/s)	-19.039	19.817
$\max(a_y _{N=0})$	(m/s)	-18.023	18.752
$N _{\max(a_y)}$	(Nm)	2.264	-2.128
$\beta _{\max(a_y)}$	(deg)	7.000	-8.000
$\delta _{\max(a_y)}$	(deg)	-20.000	22.500
$\max(N)$	(Nm)	-32.720	32.291
$\beta _{\max(N)}$	(deg)	-4.000	4.000
$\delta _{\max(N)}$	(deg)	-25.000	25.000
$a_y _{\max(N)}$	(m/s)	3.009	-2.268
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	($\frac{Nm}{deg}$)	0.145	0.111
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	($\frac{Nm}{deg}$)	-0.161	-0.160
$\frac{dN}{d\delta} \Big _{\beta=0}$	($\frac{Nm}{deg}$)	1.135	
$\frac{dN}{d\beta} \Big _{\delta=0}$	($\frac{Nm}{deg}$)	9.838	



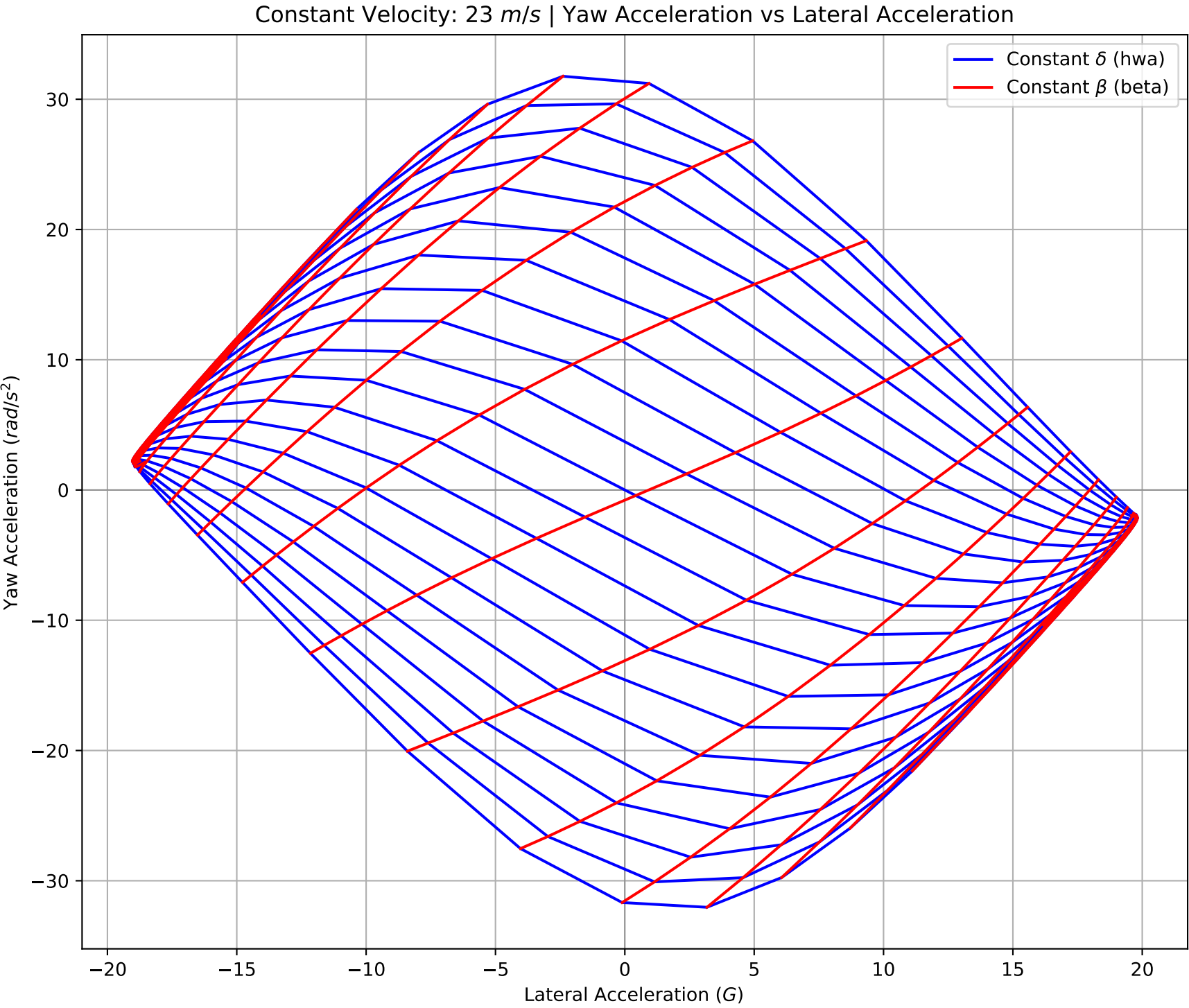
		Left Half	Right Half
$\max(a_y)$	(<i>m/s</i>)	-19.039	19.817
$\max(a_y _{N=0})$	(<i>m/s</i>)	-18.030	18.759
$N _{\max(a_y)}$	(<i>Nm</i>)	2.235	-2.181
$\beta _{\max(a_y)}$	(<i>deg</i>)	7.000	-8.000
$\delta _{\max(a_y)}$	(<i>deg</i>)	-20.000	20.000
$\max(N)$	(<i>Nm</i>)	-32.520	32.136
$\beta _{\max(N)}$	(<i>deg</i>)	-4.000	4.000
$\delta _{\max(N)}$	(<i>deg</i>)	-25.000	25.000
$a_y _{\max(N)}$	(<i>m/s</i>)	3.058	-2.305
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	0.114	0.144
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	-0.098	-0.169
$\frac{dN}{d\delta} \Big _{\beta=0}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	1.626	
$\frac{dN}{d\beta} \Big _{\delta=0}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	8.956	



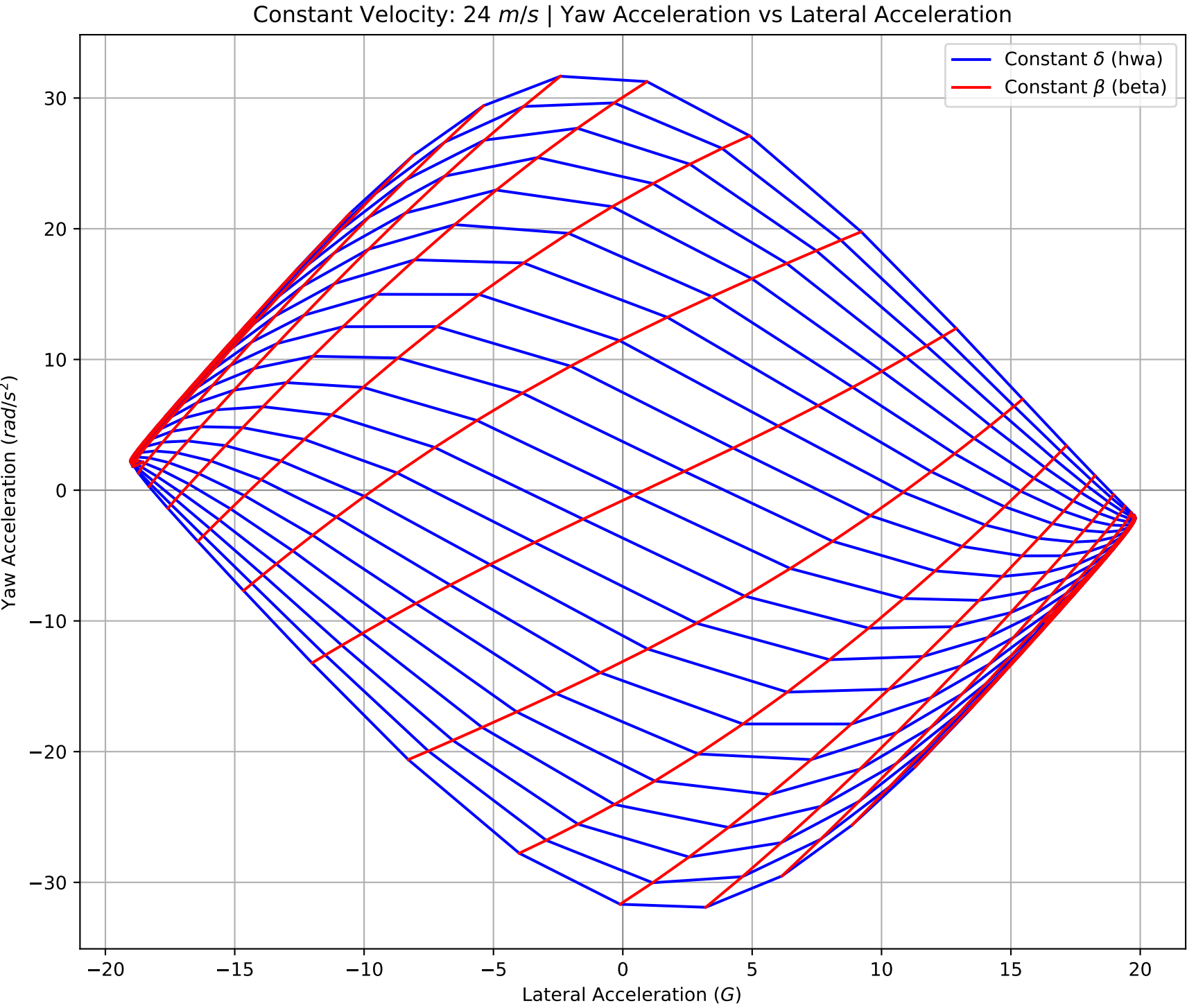
		Left Half	Right Half
$\max(a_y)$	(m/s)	-19.035	19.818
$\max(a_y _{N=0})$	(m/s)	-18.047	18.779
$N _{\max(a_y)}$	(Nm)	2.210	-2.156
$\beta _{\max(a_y)}$	(deg)	7.000	-8.000
$\delta _{\max(a_y)}$	(deg)	-20.000	20.000
$\max(N)$	(Nm)	-32.341	31.998
$\beta _{\max(N)}$	(deg)	-4.000	4.000
$\delta _{\max(N)}$	(deg)	-25.000	25.000
$a_y _{\max(N)}$	(m/s)	3.101	-2.337
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	0.088	0.125
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	-0.043	-0.131
$\frac{dN}{d\delta} \Big _{\beta=0}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	2.048	
$\frac{dN}{d\beta} \Big _{\delta=0}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	8.186	



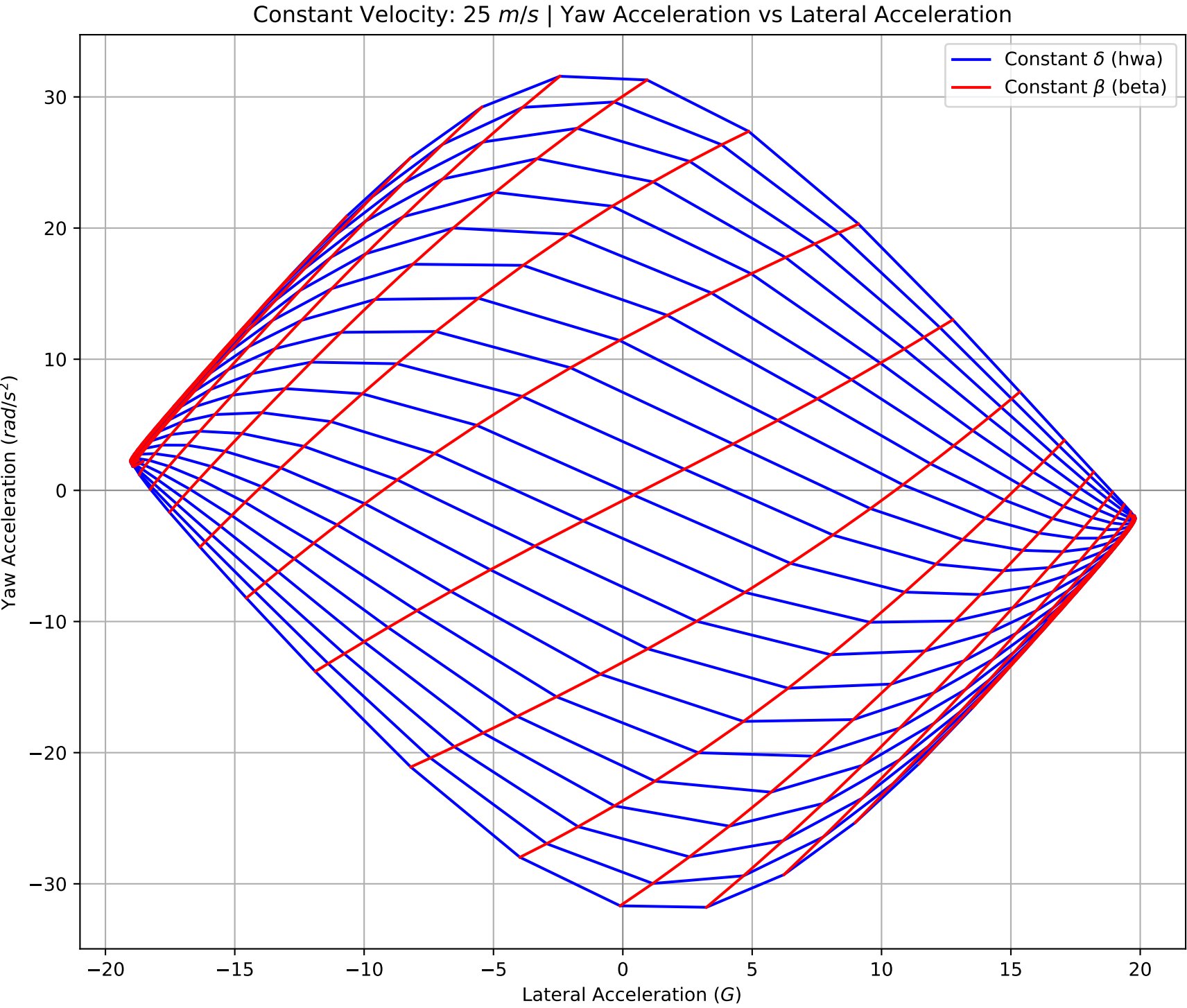
		Left Half	Right Half
$\max(a_y)$	(<i>m/s</i>)	-19.037	19.816
$\max(a_y _{N=0})$	(<i>m/s</i>)	-18.061	18.802
$N _{\max(a_y)}$	(<i>Nm</i>)	2.191	-2.134
$\beta _{\max(a_y)}$	(<i>deg</i>)	8.000	-8.000
$\delta _{\max(a_y)}$	(<i>deg</i>)	-15.000	20.000
$\max(N)$	(<i>Nm</i>)	-32.181	31.874
$\beta _{\max(N)}$	(<i>deg</i>)	-4.000	4.000
$\delta _{\max(N)}$	(<i>deg</i>)	-25.000	25.000
$a_y _{\max(N)}$	(<i>m/s</i>)	3.139	-2.366
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	$\left(\frac{Nm}{deg}\right)$	0.103	0.109
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	$\left(\frac{Nm}{deg}\right)$	-0.195	-0.098
$\frac{dN}{d\delta} \Big _{\beta=0}$	$\left(\frac{Nm}{deg}\right)$	2.413	
$\frac{dN}{d\beta} \Big _{\delta=0}$	$\left(\frac{Nm}{deg}\right)$	7.512	



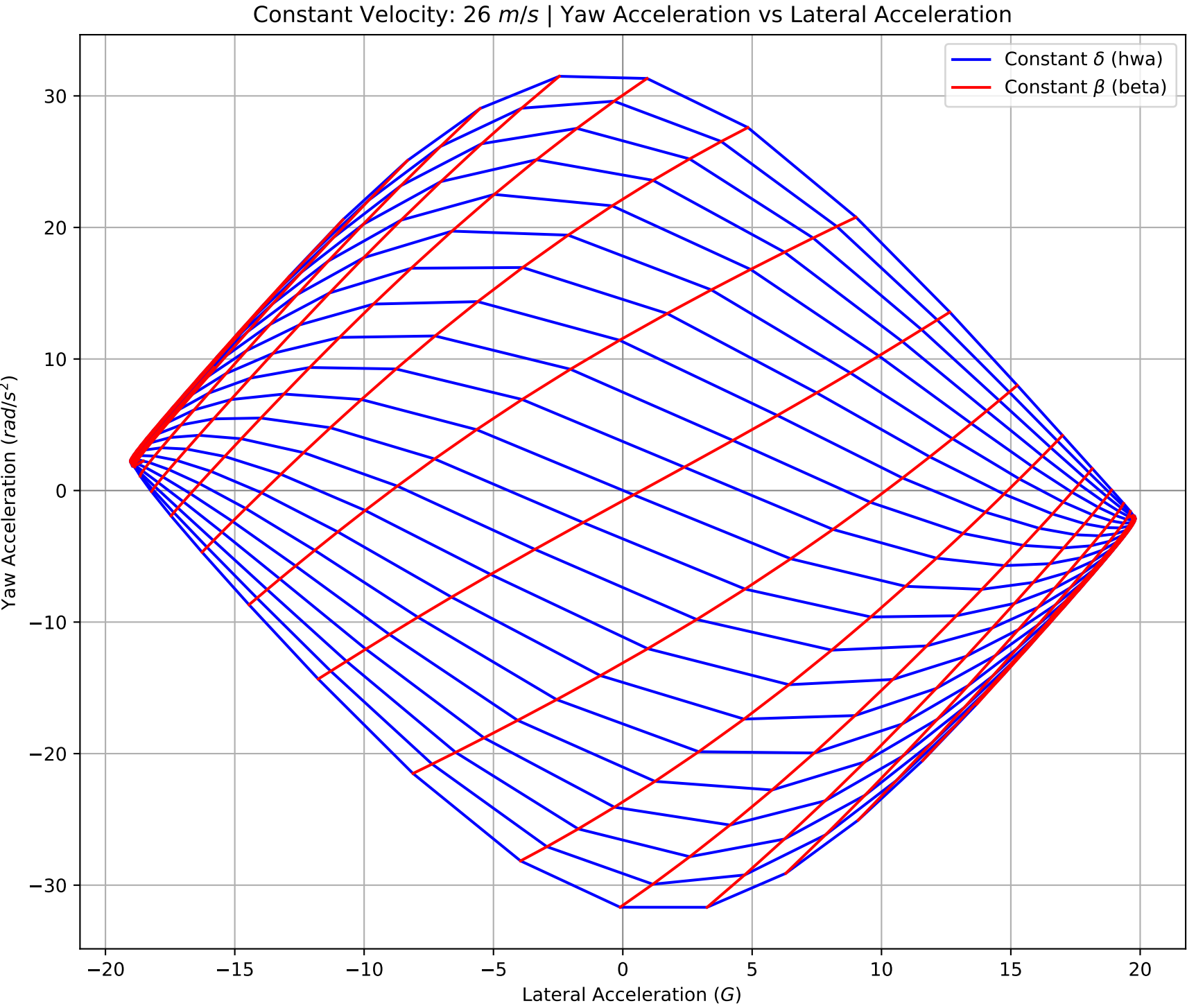
		Left Half	Right Half
$\max(a_y)$	(m/s)	-19.037	19.813
$\max(a_y _{N=0})$	(m/s)	-18.134	18.818
$N _{\max(a_y)}$	(Nm)	2.188	-2.188
$\beta _{\max(a_y)}$	(deg)	8.000	-8.000
$\delta _{\max(a_y)}$	(deg)	-15.000	17.500
$\max(N)$	(Nm)	-32.036	31.764
$\beta _{\max(N)}$	(deg)	-4.000	4.000
$\delta _{\max(N)}$	(deg)	-25.000	25.000
$a_y _{\max(N)}$	(m/s)	3.174	-2.392
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	$\left(\frac{Nm}{deg}\right)$	0.084	0.149
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	$\left(\frac{Nm}{deg}\right)$	-0.160	-0.118
$\frac{dN}{d\delta} \Big _{\beta=0}$	$\left(\frac{Nm}{deg}\right)$	2.731	
$\frac{dN}{d\beta} \Big _{\delta=0}$	$\left(\frac{Nm}{deg}\right)$	6.919	



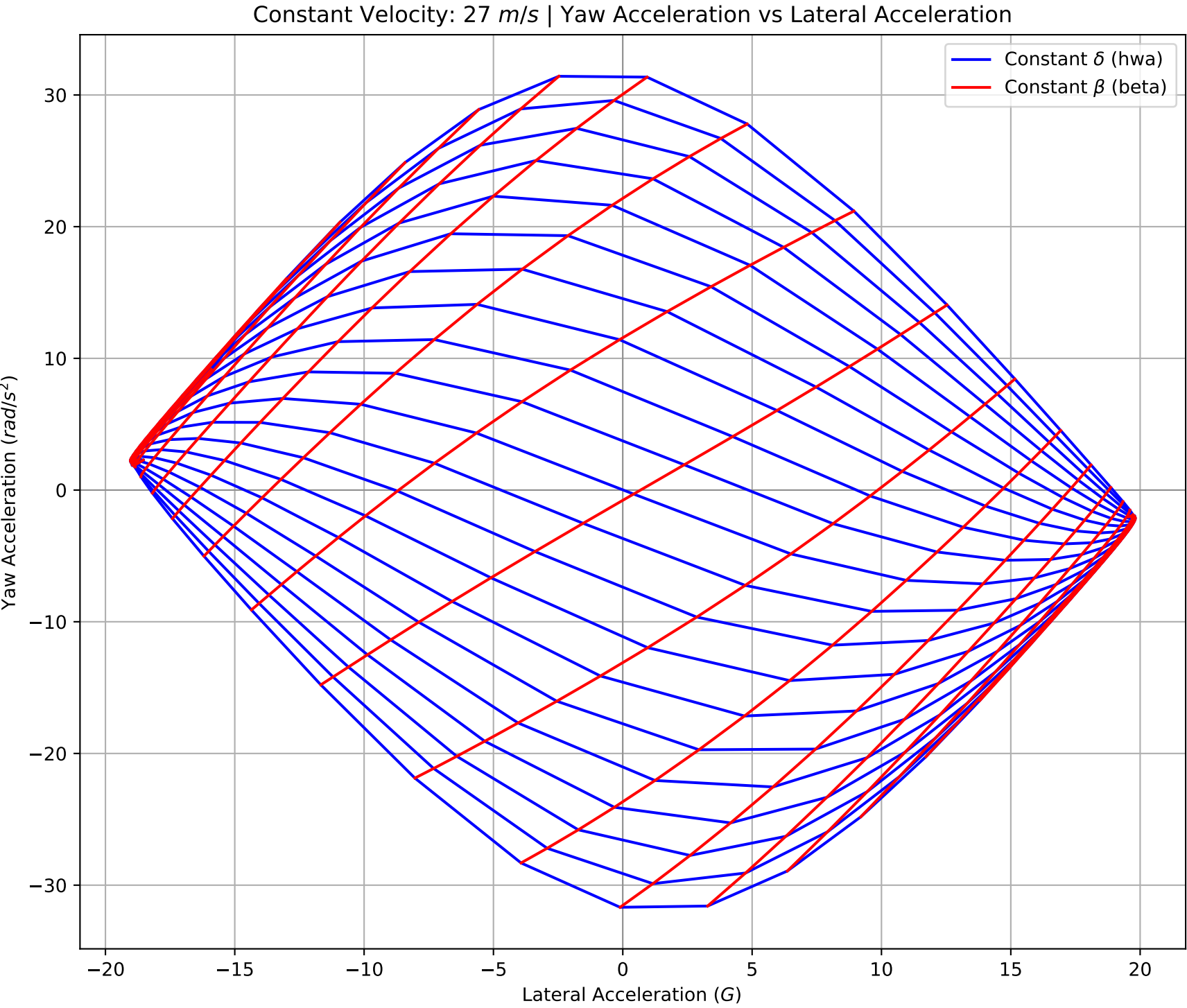
		Left Half	Right Half
$\max(a_y)$	(m/s)	-19.038	19.813
$\max(a_y _{N=0})$	(m/s)	-18.187	18.841
$N _{\max(a_y)}$	(Nm)	2.250	-2.098
$\beta _{\max(a_y)}$	(deg)	8.000	-9.000
$\delta _{\max(a_y)}$	(deg)	-12.500	15.000
$\max(N)$	(Nm)	-31.906	31.664
$\beta _{\max(N)}$	(deg)	-4.000	4.000
$\delta _{\max(N)}$	(deg)	-25.000	25.000
$a_y _{\max(N)}$	(m/s)	3.204	-2.415
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	$\left(\frac{Nm}{deg}\right)$	0.145	0.107
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	$\left(\frac{Nm}{deg}\right)$	-0.200	-0.182
$\frac{dN}{d\delta} \Big _{\beta=0}$	$\left(\frac{Nm}{deg}\right)$	3.010	
$\frac{dN}{d\beta} \Big _{\delta=0}$	$\left(\frac{Nm}{deg}\right)$	6.395	



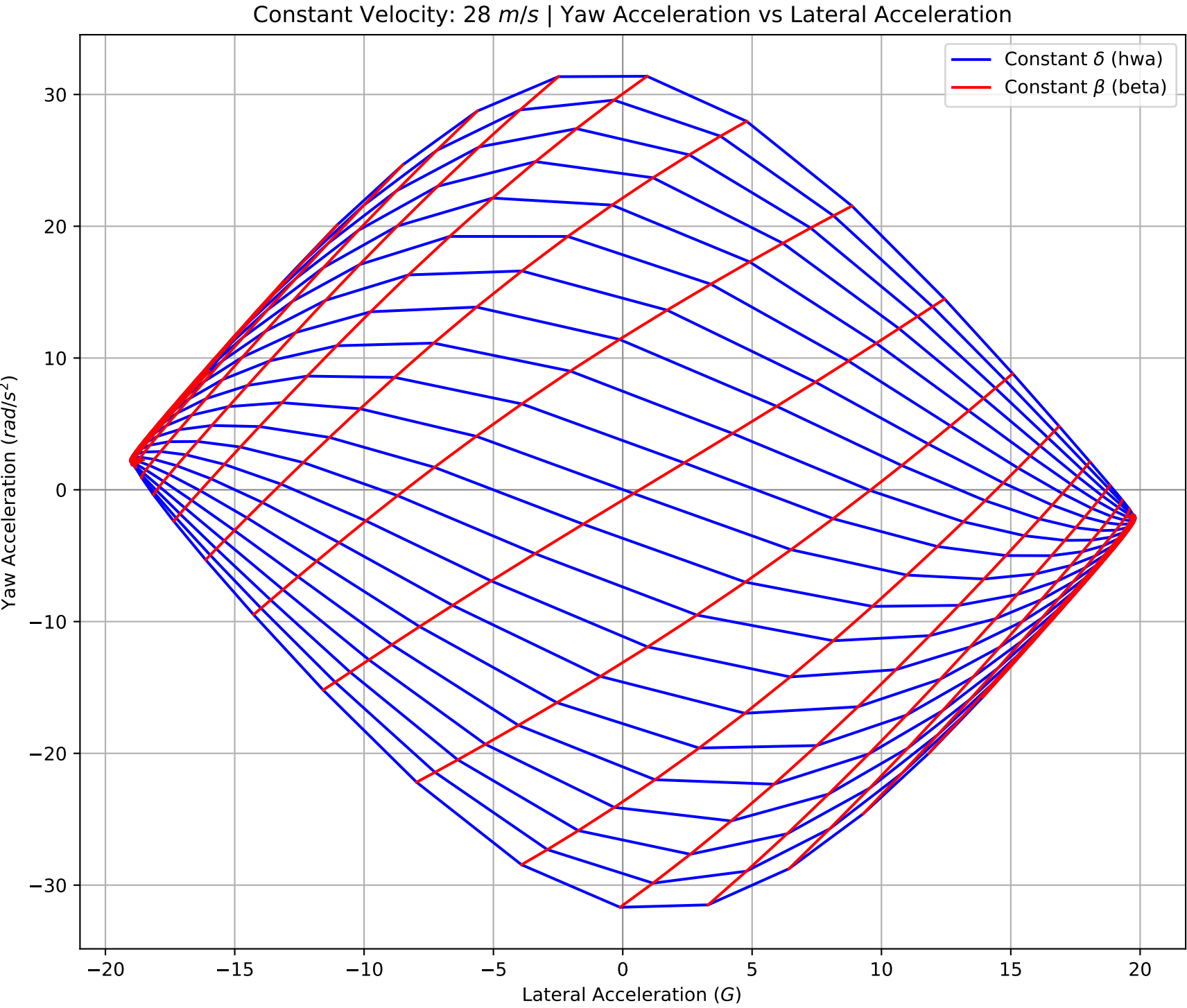
		Left Half	Right Half
$\max(a_y)$	(<i>m/s</i>)	-19.040	19.813
$\max(a_y _{N=0})$	(<i>m/s</i>)	-18.226	18.870
$N _{\max(a_y)}$	(<i>Nm</i>)	2.239	-2.166
$\beta _{\max(a_y)}$	(<i>deg</i>)	8.000	-9.000
$\delta _{\max(a_y)}$	(<i>deg</i>)	-12.500	12.500
$\max(N)$	(<i>Nm</i>)	-31.789	31.574
$\beta _{\max(N)}$	(<i>deg</i>)	-4.000	4.000
$\delta _{\max(N)}$	(<i>deg</i>)	-25.000	25.000
$a_y _{\max(N)}$	(<i>m/s</i>)	3.232	-2.436
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	0.128	0.150
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	-0.170	-0.213
$\frac{dN}{d\delta} \Big _{\beta=0}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	3.255	
$\frac{dN}{d\beta} \Big _{\delta=0}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	5.930	



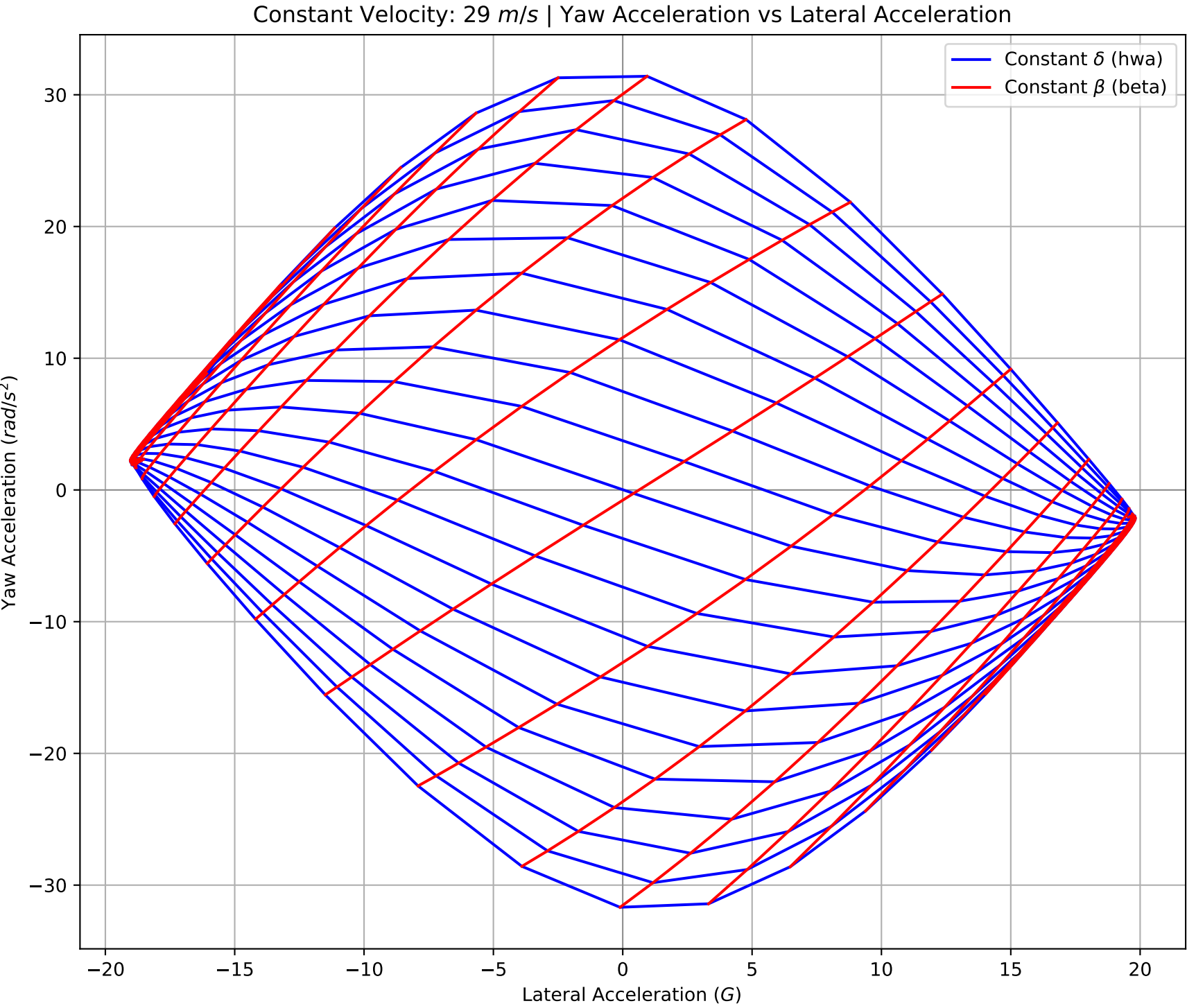
		Left Half	Right Half
$\max(a_y)$	(m/s)	-19.041	19.816
$\max(a_y _{N=0})$	(m/s)	-18.251	18.914
$N _{\max(a_y)}$	(Nm)	2.229	-2.155
$\beta _{\max(a_y)}$	(deg)	8.000	-9.000
$\delta _{\max(a_y)}$	(deg)	-12.500	12.500
$\max(N)$	(Nm)	-31.682	31.492
$\beta _{\max(N)}$	(deg)	-4.000	4.000
$\delta _{\max(N)}$	(deg)	-25.000	25.000
$a_y _{\max(N)}$	(m/s)	3.257	-2.455
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	$\left(\frac{Nm}{deg}\right)$	0.114	0.140
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	$\left(\frac{Nm}{deg}\right)$	-0.142	-0.194
$\frac{dN}{d\delta} \Big _{\beta=0}$	$\left(\frac{Nm}{deg}\right)$	3.473	
$\frac{dN}{d\beta} \Big _{\delta=0}$	$\left(\frac{Nm}{deg}\right)$	5.516	



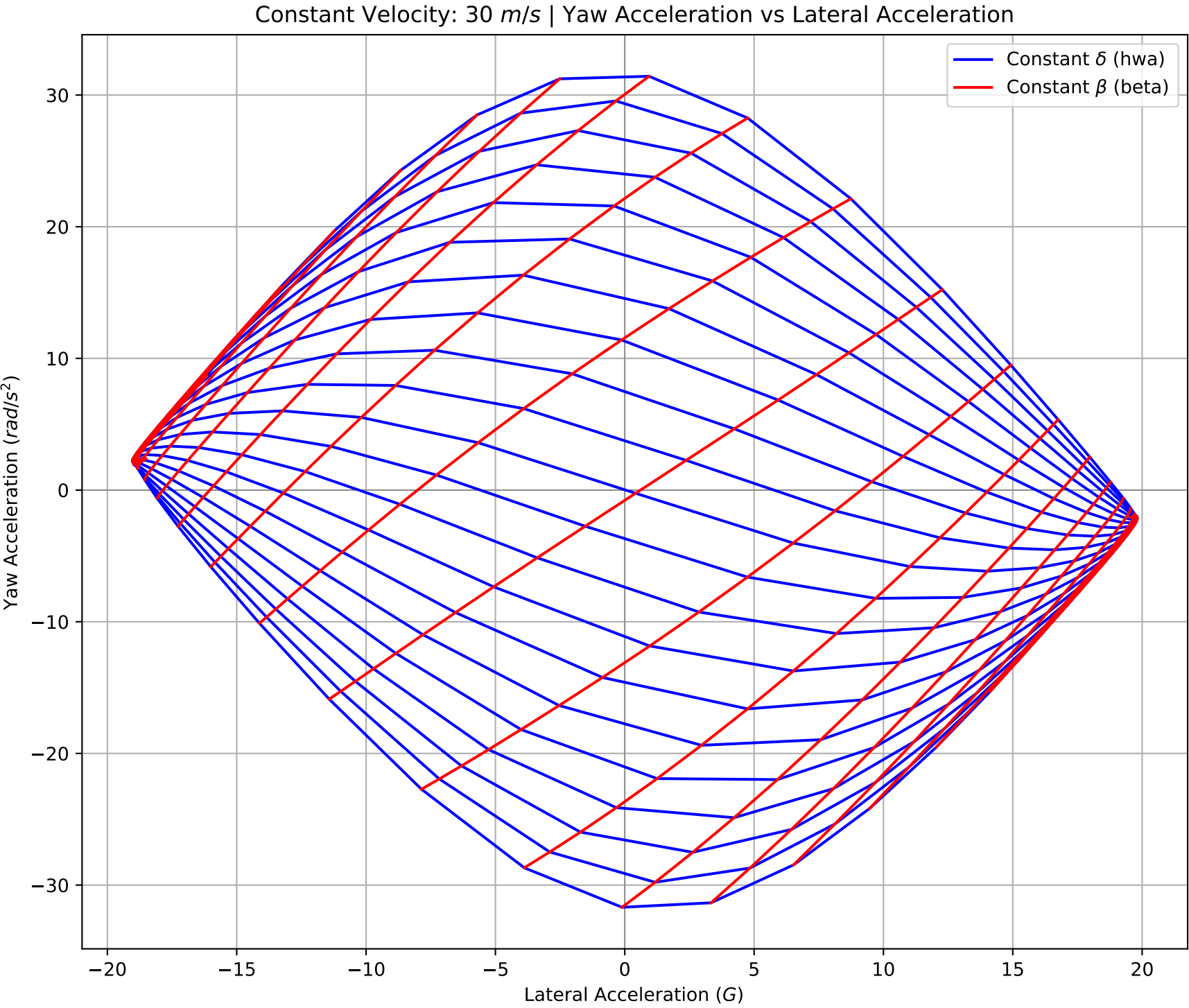
		Left Half	Right Half
$\max(a_y)$	(m/s)	-19.040	19.817
$\max(a_y _{N=0})$	(m/s)	-18.267	18.951
$N _{\max(a_y)}$	(Nm)	2.221	-2.145
$\beta _{\max(a_y)}$	(deg)	8.000	-9.000
$\delta _{\max(a_y)}$	(deg)	-12.500	12.500
$\max(N)$	(Nm)	-31.680	31.418
$\beta _{\max(N)}$	(deg)	-3.000	4.000
$\delta _{\max(N)}$	(deg)	-25.000	25.000
$a_y _{\max(N)}$	(m/s)	-0.104	-2.471
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	($\frac{Nm}{deg}$)	0.101	0.130
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	($\frac{Nm}{deg}$)	-0.117	-0.177
$\frac{dN}{d\delta} \Big _{\beta=0}$	($\frac{Nm}{deg}$)	3.667	
$\frac{dN}{d\beta} \Big _{\delta=0}$	($\frac{Nm}{deg}$)	5.146	



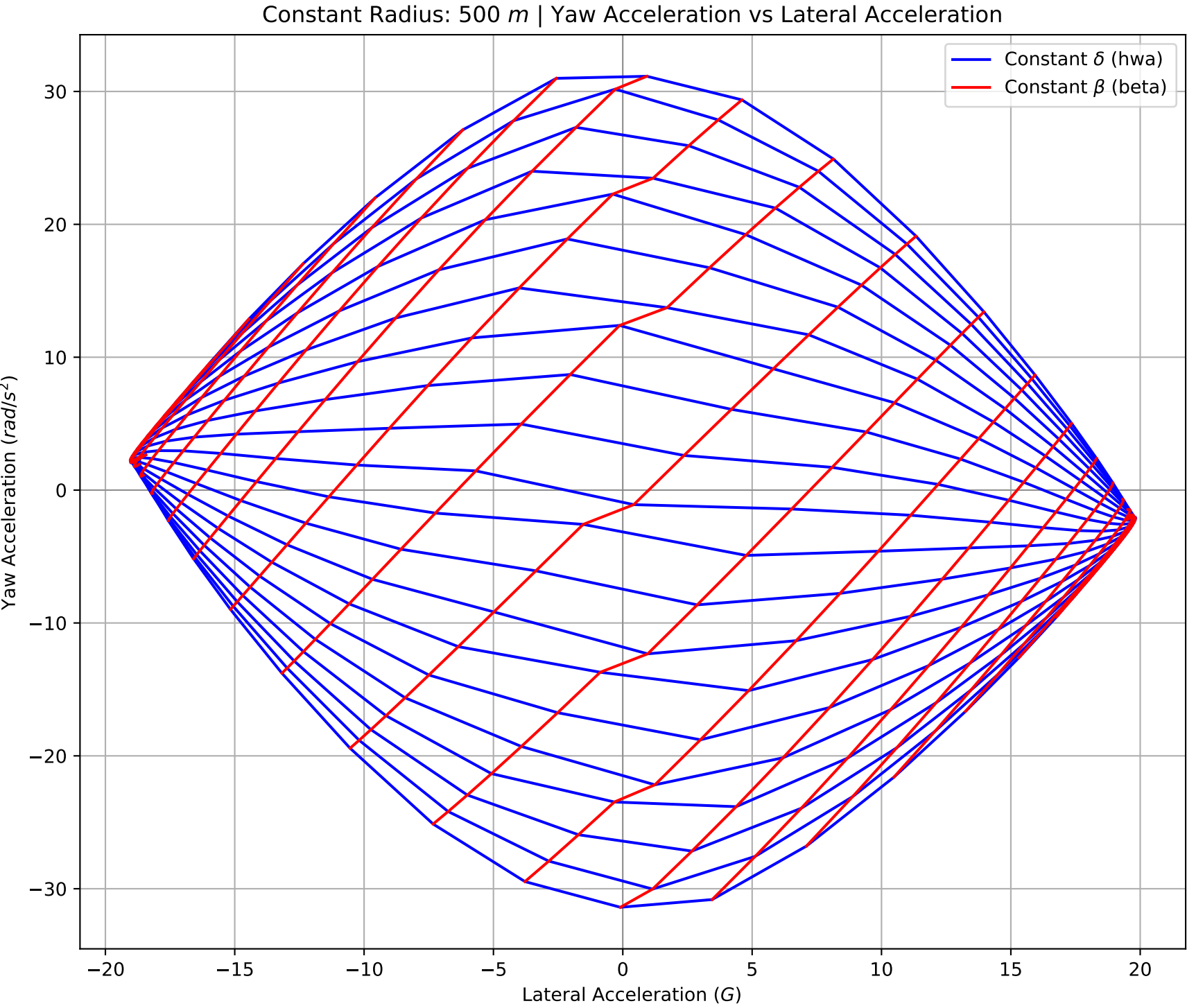
		Left Half	Right Half
$\max(a_y)$	(m/s)	-19.039	19.817
$\max(a_y _{N=0})$	(m/s)	-18.279	18.980
$N _{\max(a_y)}$	(Nm)	2.214	-2.137
$\beta _{\max(a_y)}$	(deg)	8.000	-9.000
$\delta _{\max(a_y)}$	(deg)	-12.500	12.500
$\max(N)$	(Nm)	-31.681	31.381
$\beta _{\max(N)}$	(deg)	-3.000	3.000
$\delta _{\max(N)}$	(deg)	-25.000	25.000
$a_y _{\max(N)}$	(m/s)	-0.104	0.940
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	$\left(\frac{Nm}{deg}\right)$	0.091	0.122
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	$\left(\frac{Nm}{deg}\right)$	-0.095	-0.162
$\frac{dN}{d\delta} \Big _{\beta=0}$	$\left(\frac{Nm}{deg}\right)$	3.840	
$\frac{dN}{d\beta} \Big _{\delta=0}$	$\left(\frac{Nm}{deg}\right)$	4.814	



		Left Half	Right Half
$\max(a_y)$	(m/s)	-19.038	19.817
$\max(a_y _{N=0})$	(m/s)	-18.288	19.003
$N _{\max(a_y)}$	(Nm)	2.208	-2.129
$\beta _{\max(a_y)}$	(deg)	8.000	-9.000
$\delta _{\max(a_y)}$	(deg)	-12.500	12.500
$\max(N)$	(Nm)	-31.683	31.405
$\beta _{\max(N)}$	(deg)	-3.000	3.000
$\delta _{\max(N)}$	(deg)	-25.000	25.000
$a_y _{\max(N)}$	(m/s)	-0.104	0.941
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	0.081	0.115
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	-0.075	-0.148
$\frac{dN}{d\delta} \Big _{\beta=0}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	3.996	
$\frac{dN}{d\beta} \Big _{\delta=0}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	4.516	



		Left Half	Right Half
$\max(a_y)$	(<i>m/s</i>)	-19.036	19.817
$\max(a_y _{N=0})$	(<i>m/s</i>)	-18.295	19.022
$N _{\max(a_y)}$	(<i>Nm</i>)	2.269	-2.123
$\beta _{\max(a_y)}$	(<i>deg</i>)	8.000	-9.000
$\delta _{\max(a_y)}$	(<i>deg</i>)	-10.000	12.500
$\max(N)$	(<i>Nm</i>)	-31.684	31.426
$\beta _{\max(N)}$	(<i>deg</i>)	-3.000	3.000
$\delta _{\max(N)}$	(<i>deg</i>)	-25.000	25.000
$a_y _{\max(N)}$	(<i>m/s</i>)	-0.104	0.941
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	$\left(\frac{Nm}{deg}\right)$	0.151	0.109
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	$\left(\frac{Nm}{deg}\right)$	-0.129	-0.136
$\frac{dN}{d\delta} \Big _{\beta=0}$	$\left(\frac{Nm}{deg}\right)$	4.136	
$\frac{dN}{d\beta} \Big _{\delta=0}$	$\left(\frac{Nm}{deg}\right)$	4.246	



		Left Half	Right Half
$\max(a_y)$	(m/s)	-19.039	19.815
$\max(a_y _{N=0})$	(m/s)	-18.323	19.123
$N _{\max(a_y)}$	(Nm)	2.260	-2.095
$\beta _{\max(a_y)}$	(deg)	9.000	-10.000
$\delta _{\max(a_y)}$	(deg)	-2.500	5.000
$\max(N)$	(Nm)	-31.396	31.143
$\beta _{\max(N)}$	(deg)	-3.000	3.000
$\delta _{\max(N)}$	(deg)	-25.000	25.000
$a_y _{\max(N)}$	(m/s)	-0.093	0.931
$\frac{dN}{d\delta} \Big _{\max(a_y)}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	0.150	0.101
$\frac{dN}{d\beta} \Big _{\max(a_y)}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	-0.173	-0.155
$\frac{dN}{d\delta} \Big _{\beta=0}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	3.830	
$\frac{dN}{d\beta} \Big _{\delta=0}$	$\left(\frac{\text{Nm}}{\text{deg}}\right)$	1.704	