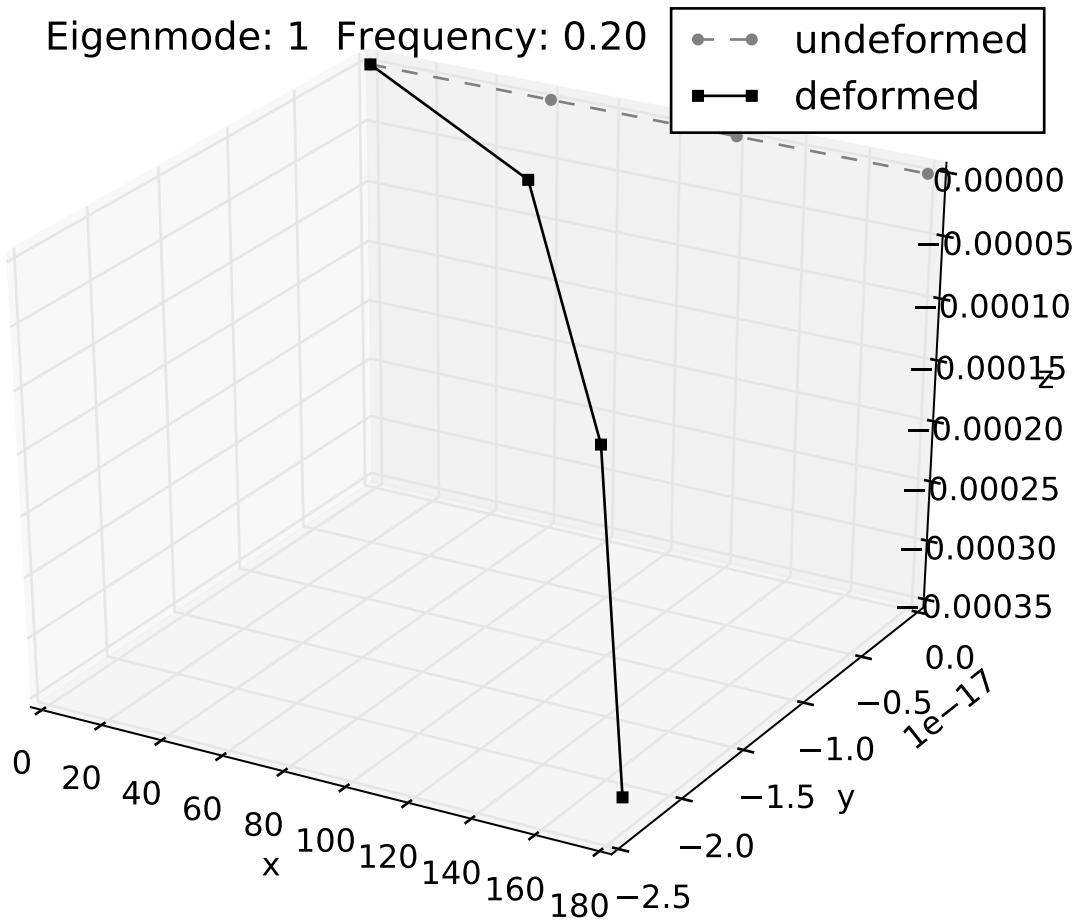
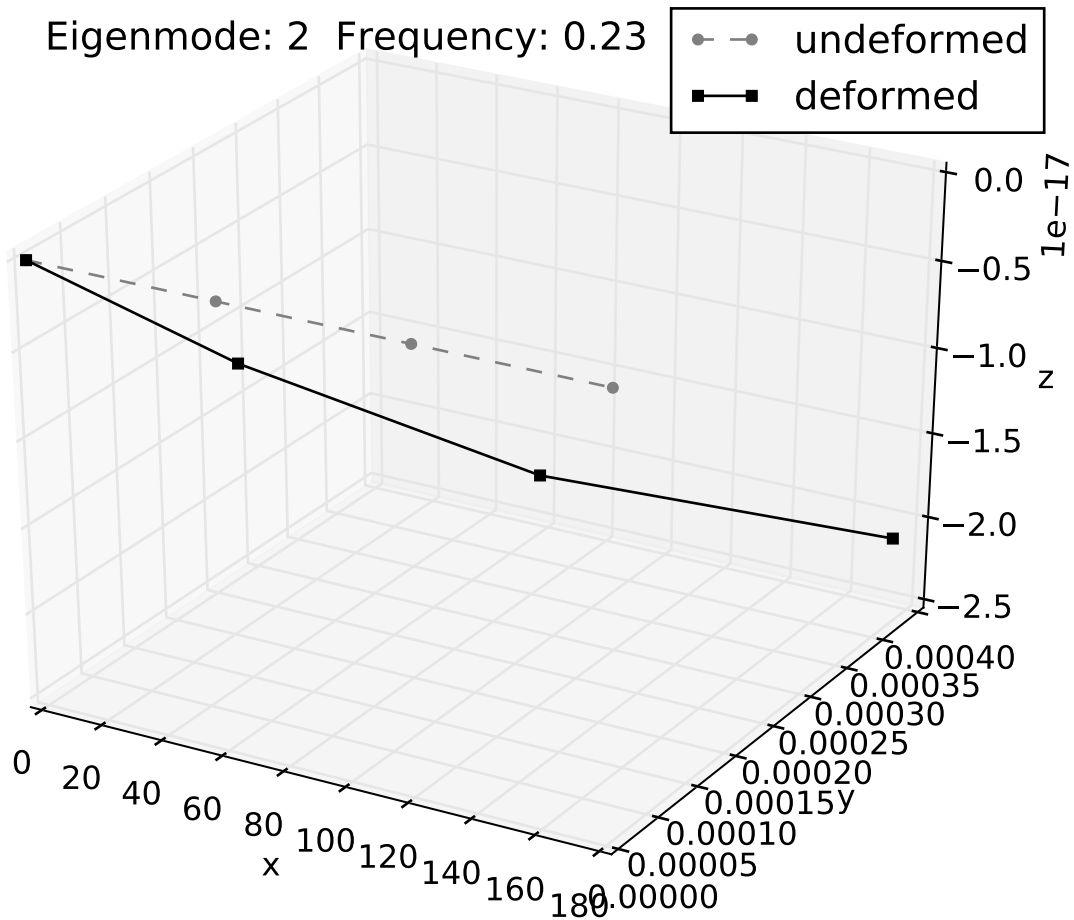
Result of eigenvalue analysis
Mode Eigenfrequency [Hz] Period [s]

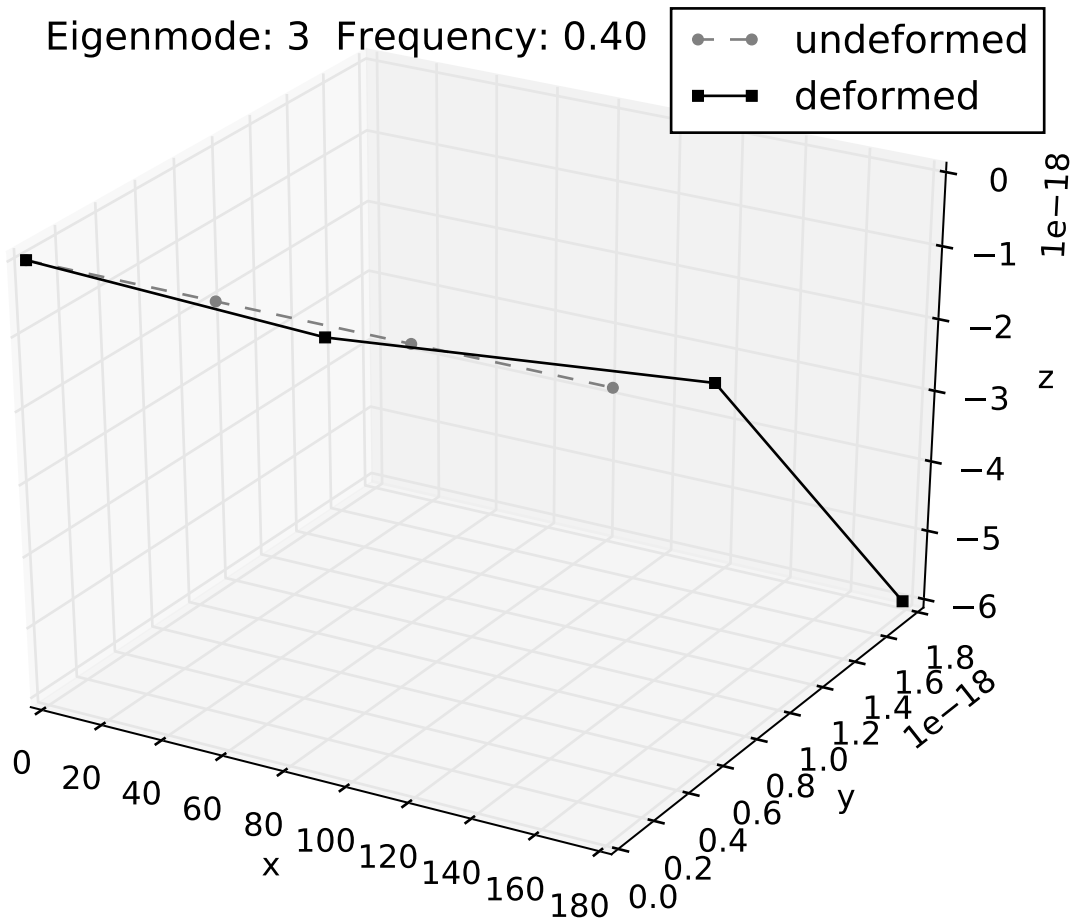
Mode	Eigenfrequency [Hz]	Period [s]
1	0.20000	4.99999
2	0.23000	4.34782
3	0.40000	2.50000
4	0.92263	1.08386
5	0.97454	1.02613
6	0.99218	1.00788
7	1.87208	0.53417
8	2.03008	0.49259
9	2.09035	0.47839
10	2.44839	0.40843
11	5.03373	0.19866
12	5.23553	0.19100
13	6.12338	0.16331
14	8.13056	0.12299
15	8.71231	0.11478

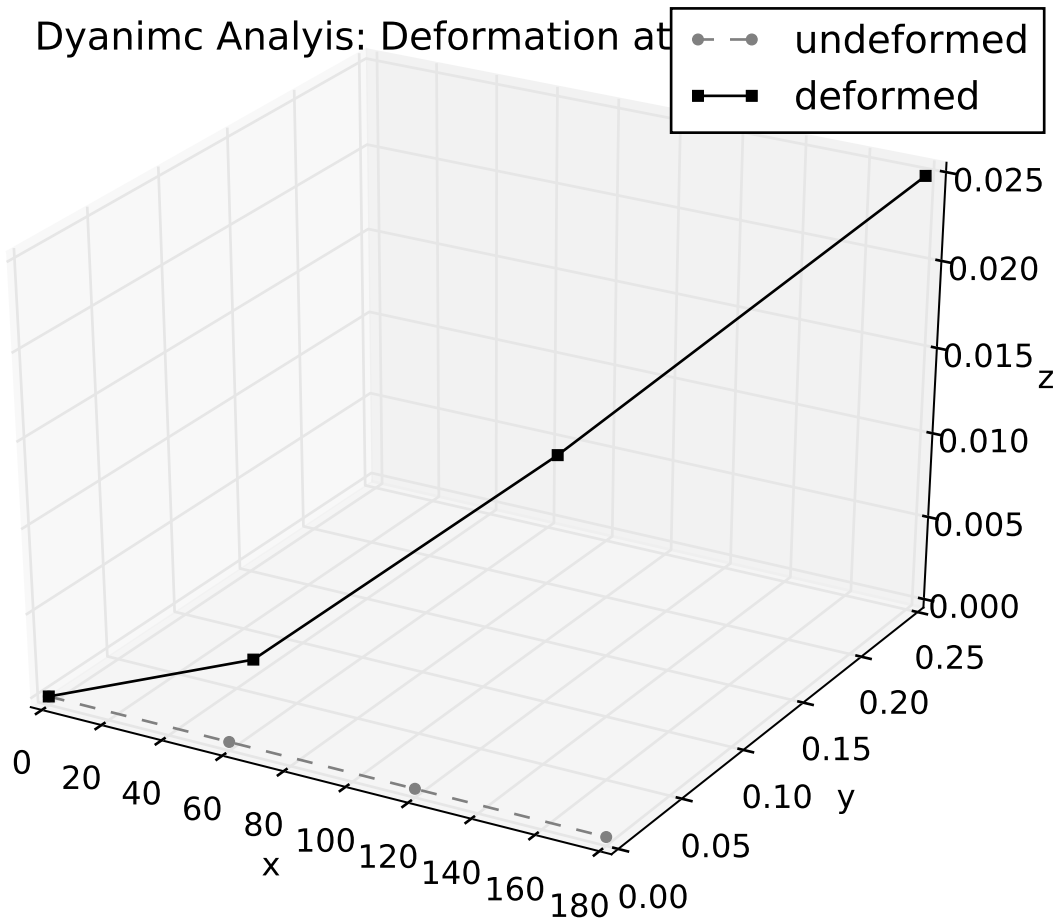
Result of decoupled eigenmode identification for the first 15 mode(s)

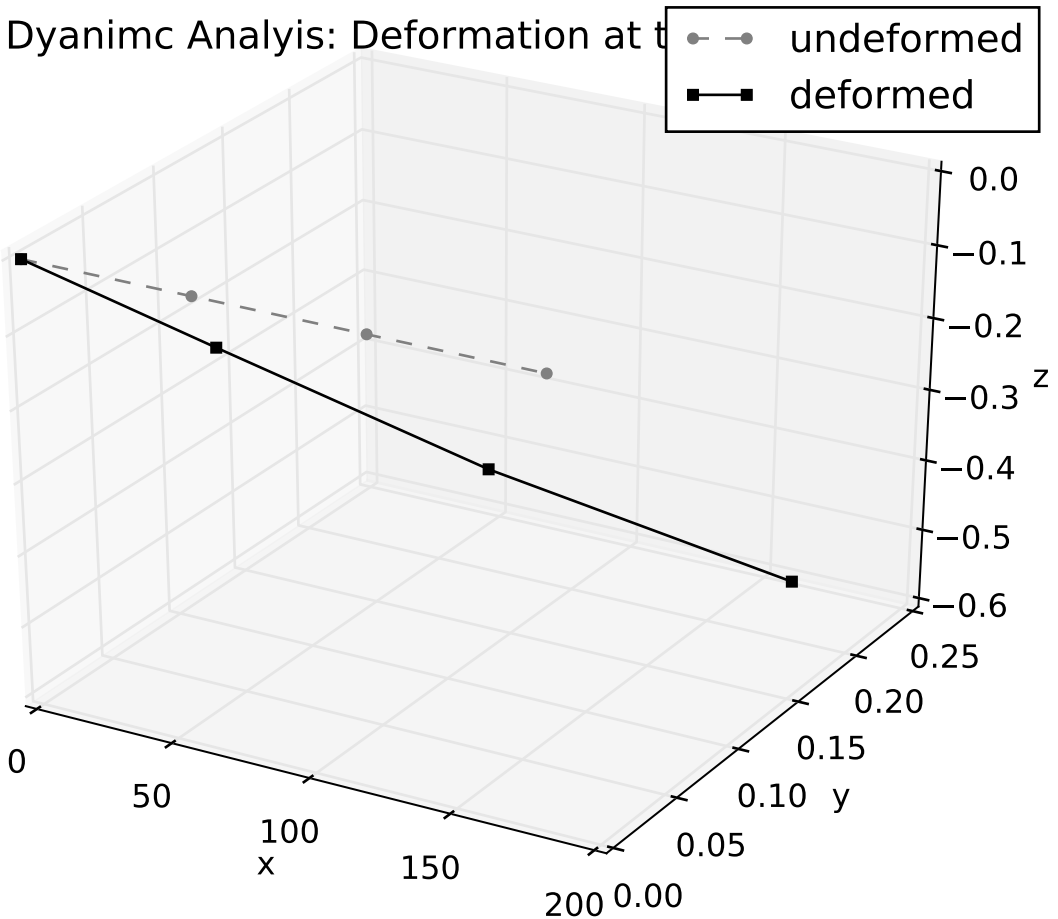
ConsideredModes	Mode	TypeCounter	Eigenfrequency [Hz]	Type	EffModalMass [kg] or [kg*m^2]	RelPart EffModalMass/TotalMass
1	1	1	0.200	sway_y	27676531.370	0.712
2	6	2	0.992	sway_y	1428425.549	0.037
3	10	3	2.448	sway_y	3426417.046	0.088
4	13	4	6.123	sway_y	718821.017	0.018
5	2	1	0.230	sway_z	22351550.986	0.575
6	4	2	0.923	sway_z	2848733.469	0.073
7	8	3	2.030	sway_z	4806649.320	0.124
8	11	4	5.034	sway_z	1859680.618	0.048
9	14	5	8.131	sway_z	27006562.788	0.695
10	3	1	0.400	torsional	9485367111.908	0.931
11	5	2	0.975	torsional	83562672.348	0.008
12	9	3	2.090	torsional	13913616.686	0.001
13	7	1	1.872	longitudinal	35929681.630	0.924
14	12	2	5.236	longitudinal	130367.560	0.003
15	15	3	8.712	longitudinal	677885.445	0.017

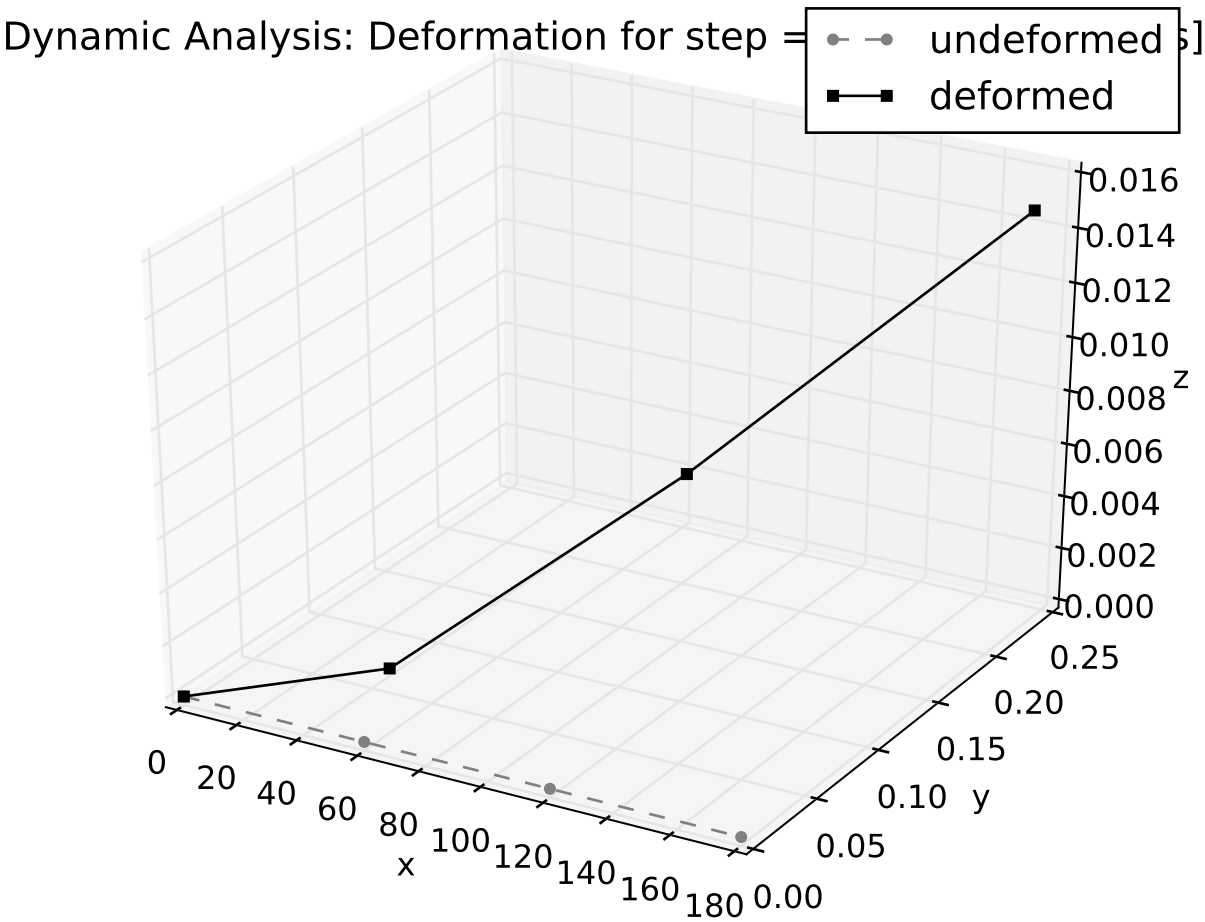

Eigenmode: 1 Frequency: 0.20
undeformed
deformed
0.00000
−0.00005
−0.00010
−0.00015
−0.00020
−0.00025
−0.00030
−0.00035
z
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
1e−17
y
0
20
40
60
80
100
120
140
160
180
x

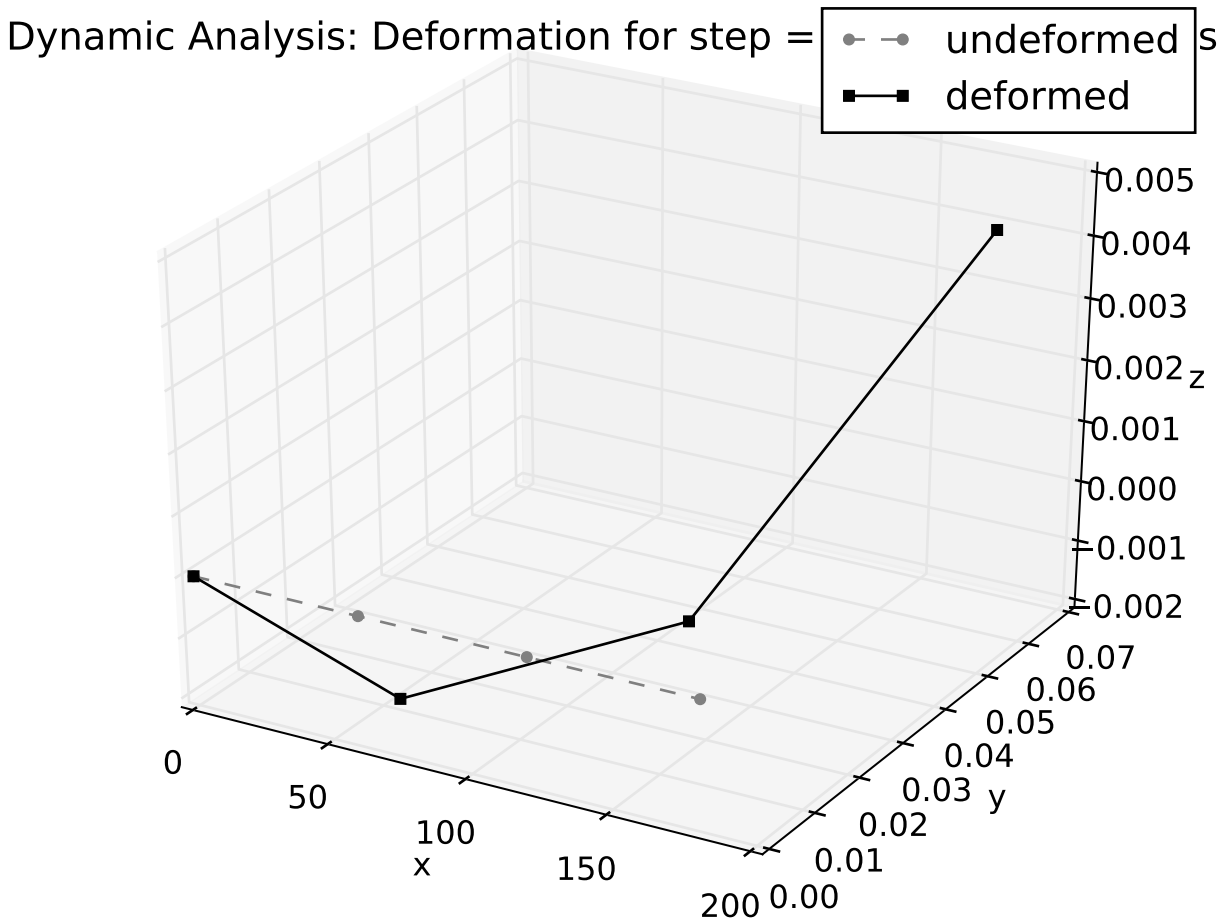

Eigenmode: 2 Frequency: 0.23
undeformed
deformed
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
1e−17
z
0
20
40
60
80
100
120
140
160
180
x
0.00000
0.00005
0.00010
0.00015
0.00020
0.00025
0.00030
0.00035
0.00040
y

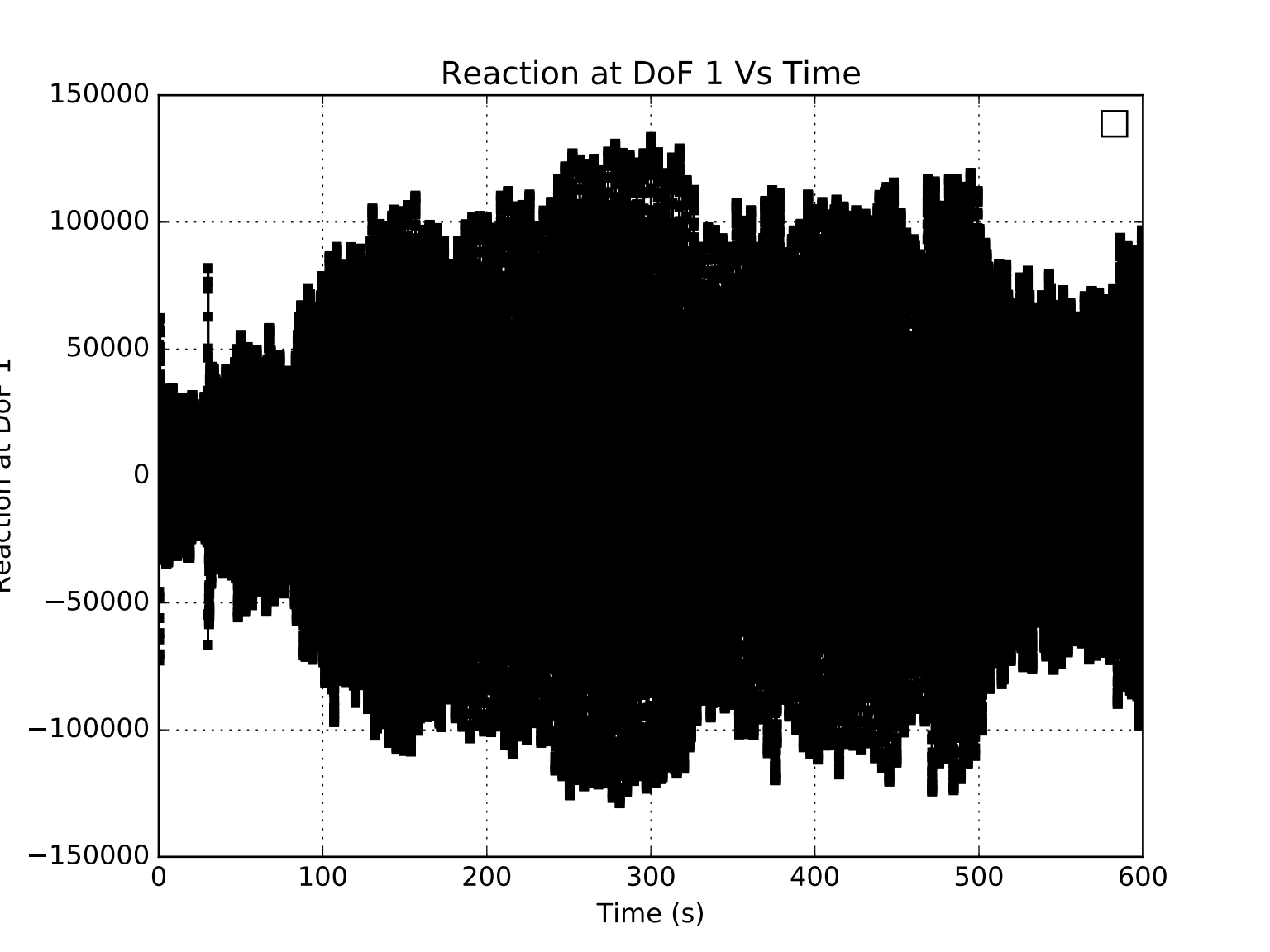

Eigenmode: 3 Frequency: 0.40
undeformed
deformed
0
−1
−2
−3
−4
−5
−6
1e−18
z
0
20
40
60
80
100
120
140
160
180
x
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
1e−18
y

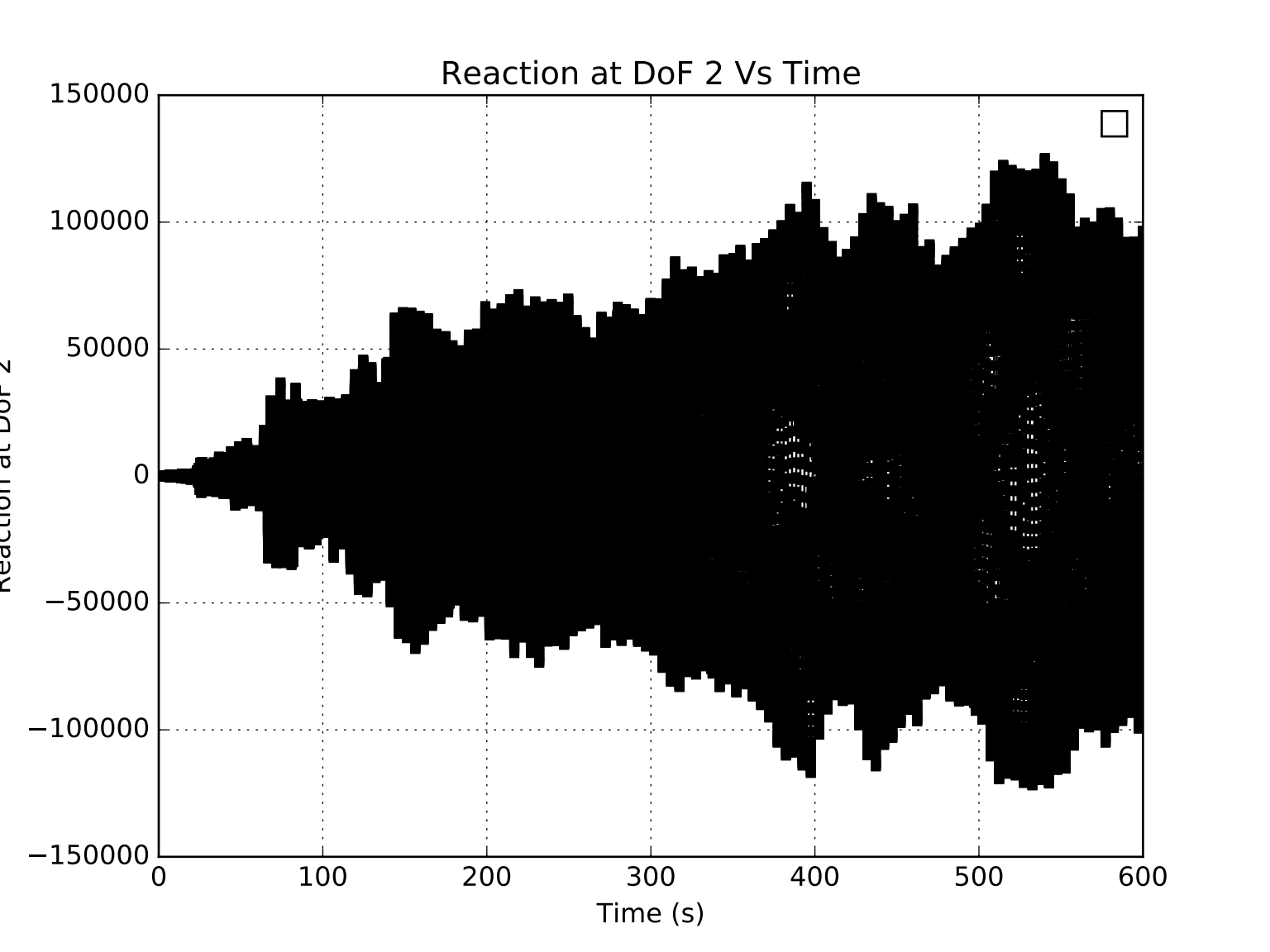

Dyanimc Analyis: Deformation at
undeformed
deformed
0.025
0.020
0.015
z
0.010
0.005
0.000
0.25
0.20
0.15
0.10
y
0.05
0.00
0
20
40
60
80
100
120
140
160
180
x

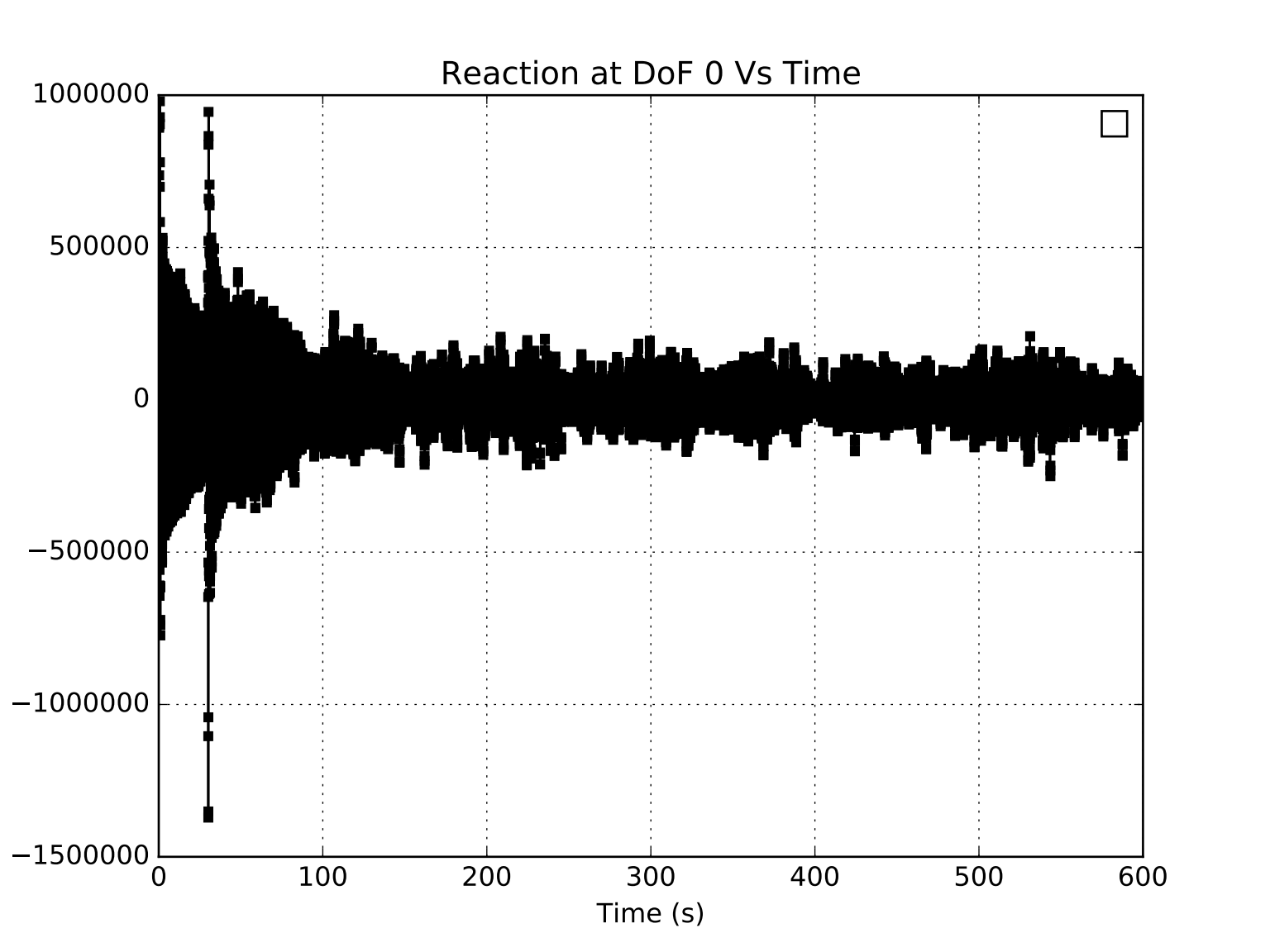

Dyanimc Analyis: Deformation at t
undeformed
deformed
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
z
0.25
0.20
0.15
0.10
0.05
0.00
y
0
50
100
150
200
x


Dynamic Analysis: Deformation for step =
undeformed
deformed
0.016
0.014
0.012
0.010
0.008
z
0.006
0.004
0.002
0.000
0.25
0.20
0.15
0.10
y
0.05
0.00
0
20
40
60
80
100
120
140
160
180
x

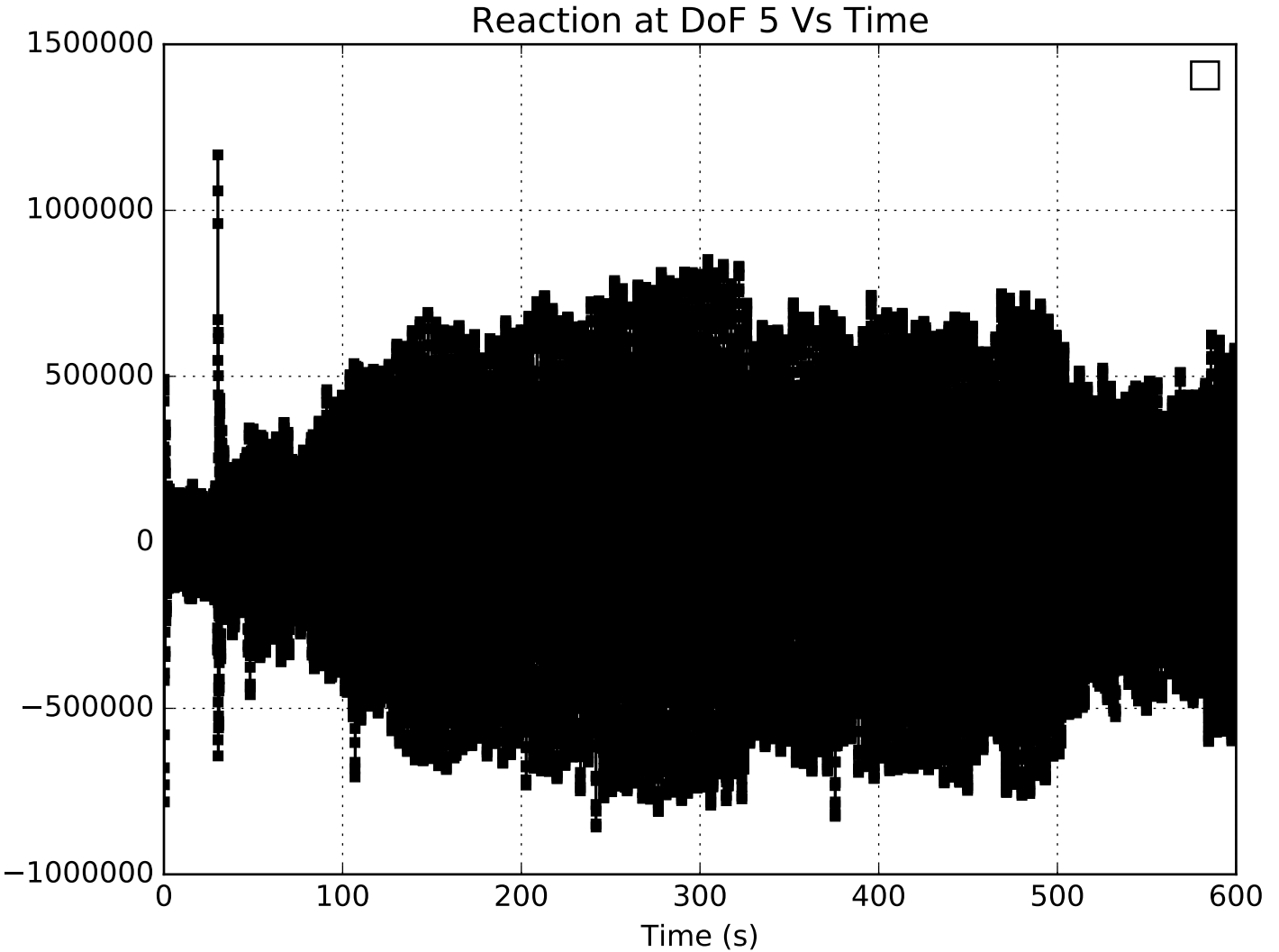

Dynamic Analysis: Deformation for step = s]
undeformed
deformed
0.005
0.004
0.003
0.002
z
0.001
0.000
0.001
0.002
0.07
0.06
0.05
0.04
0.03
y
0.02
0.01
0.00
0
50
100
x
150
200


Reaction at DoF 1 Vs Time
150000
100000
50000
0
−50000
−100000
−150000
Reaction at DoF 1
0
100
200
300
400
500
600
Time (s)

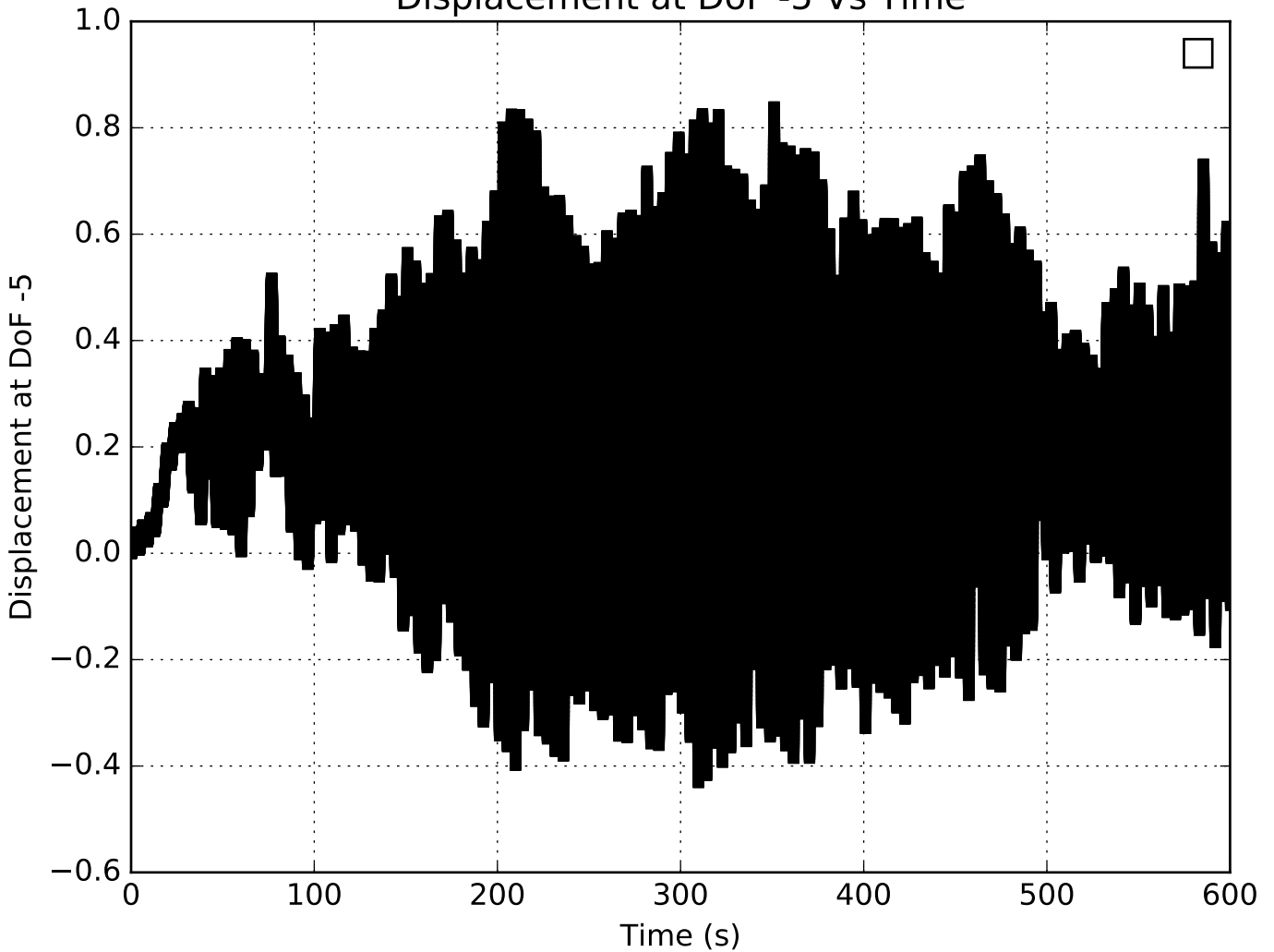

Reaction at DoF 2 Vs Time
150000
100000
50000
0
−50000
−100000
−150000
Reaction at DoF 2
0
100
200
300
400
500
600
Time (s)

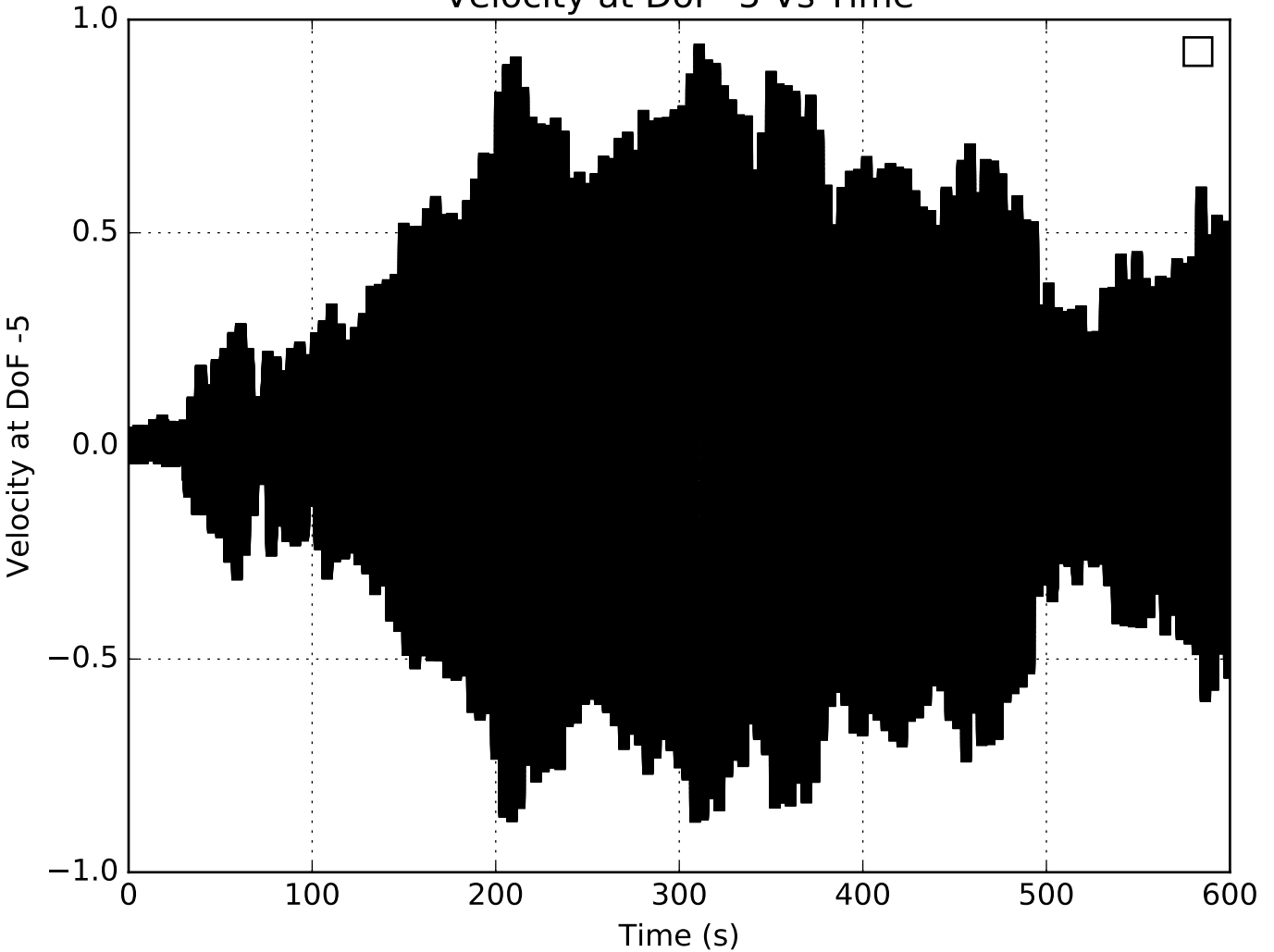

Reaction at DoF 0 Vs Time
1000000
500000
0
−500000
−1000000
−1500000
0
100
200
300
400
500
600
Time (s)

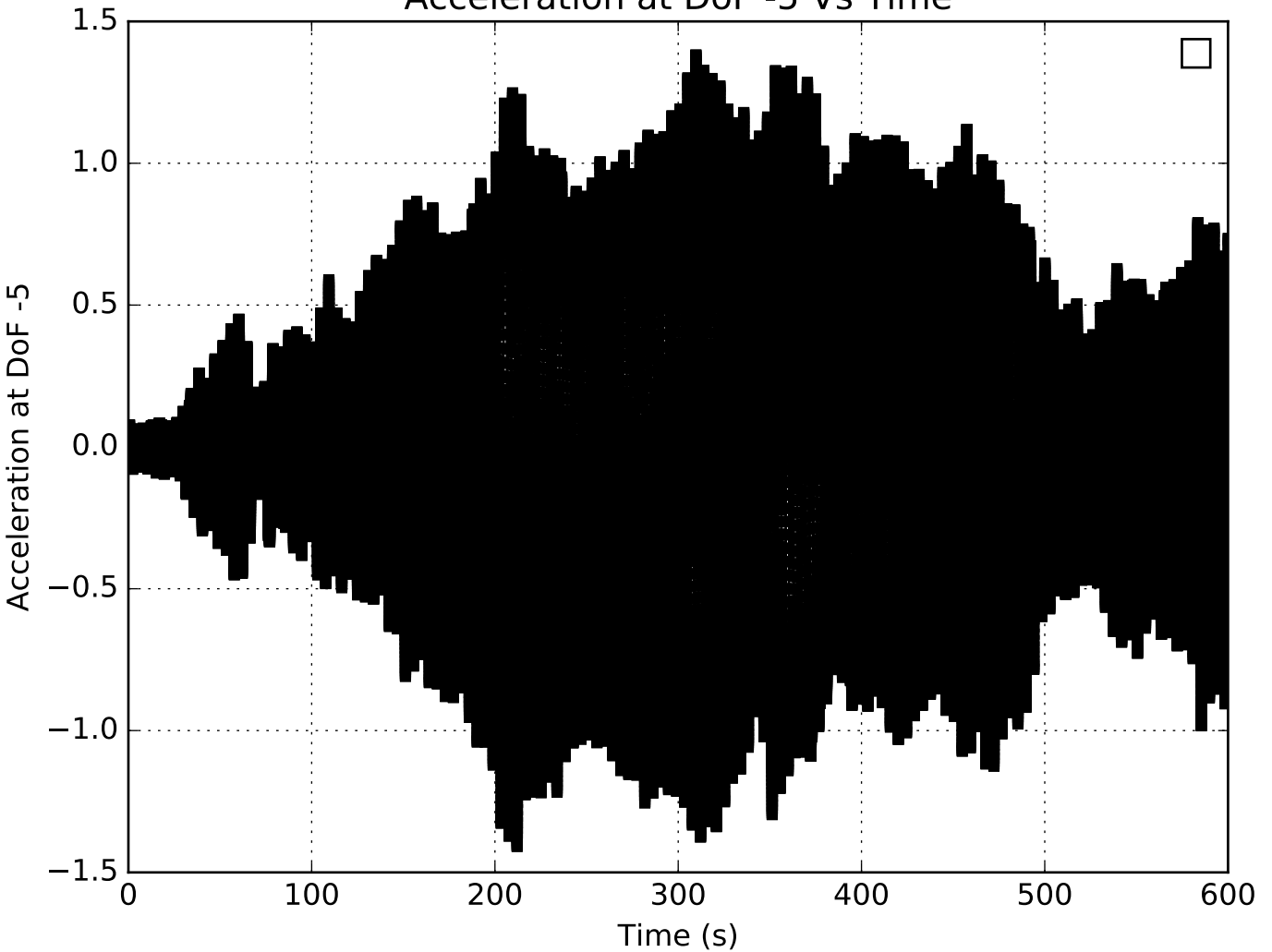
Reaction at DoF 4 Vs Time
800000
600000
400000
200000
0
−200000
−400000
−600000
−800000
Reaction at DoF 4
0
100
200
300
400
500
600
Time (s)

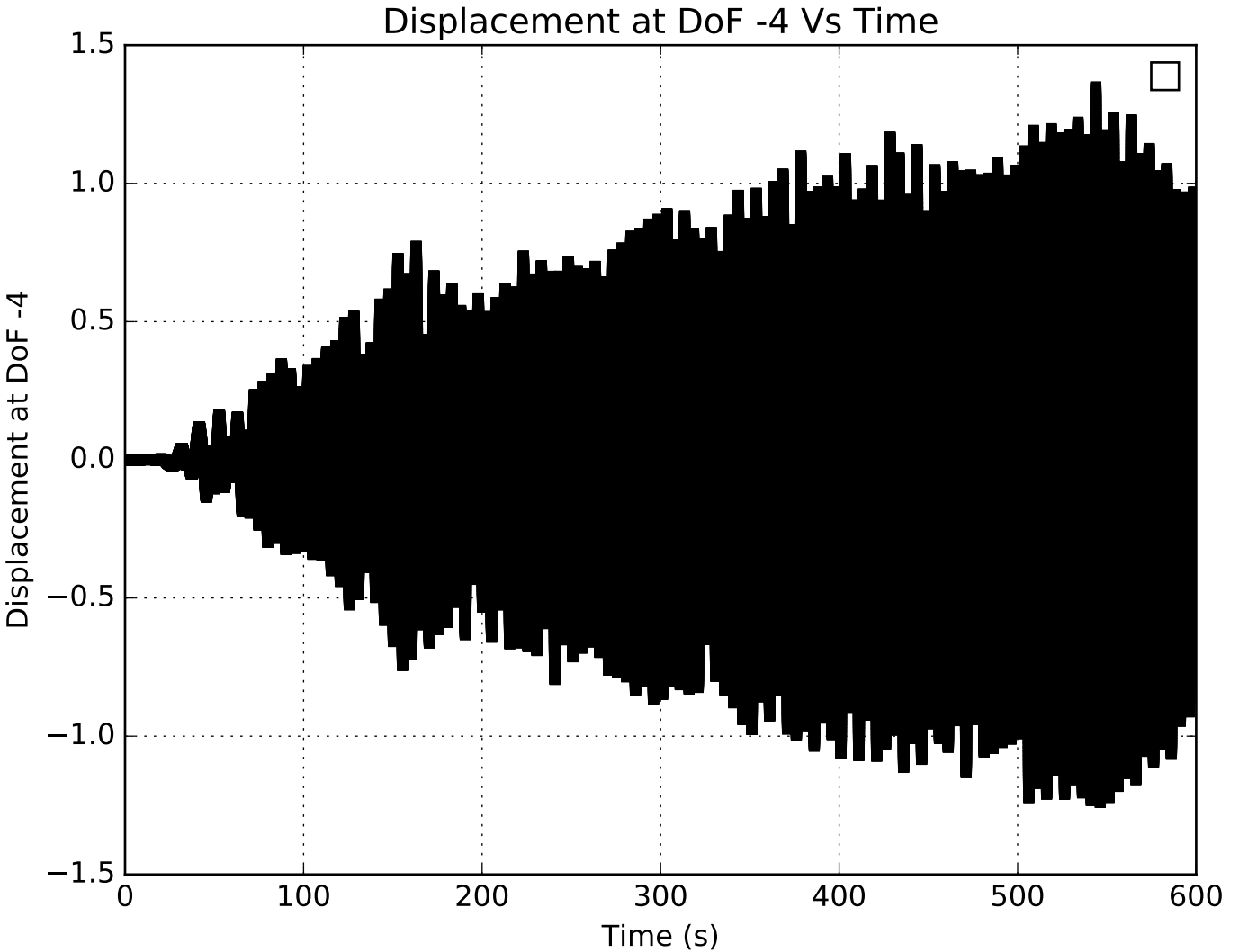

Reaction at DoF 5 Vs Time
1500000
1000000
500000
0
−500000
−1000000
0
100
200
300
400
500
600
Time (s)

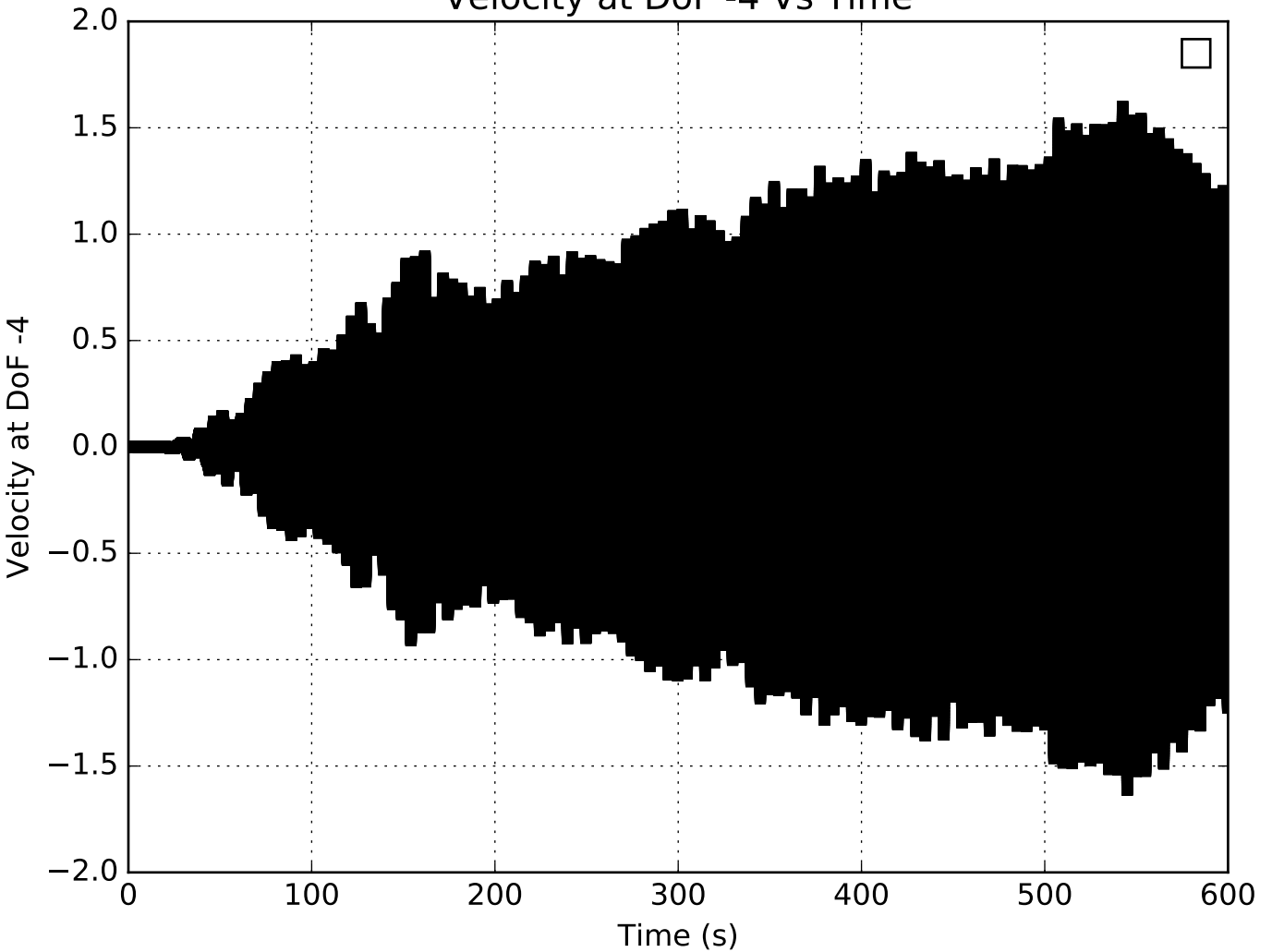
Reaction at DoF 3 Vs Time
4000000
3000000
2000000
1000000
0
−1000000
−2000000
−3000000
−4000000
0
100
200
300
400
500
600
Time (s)

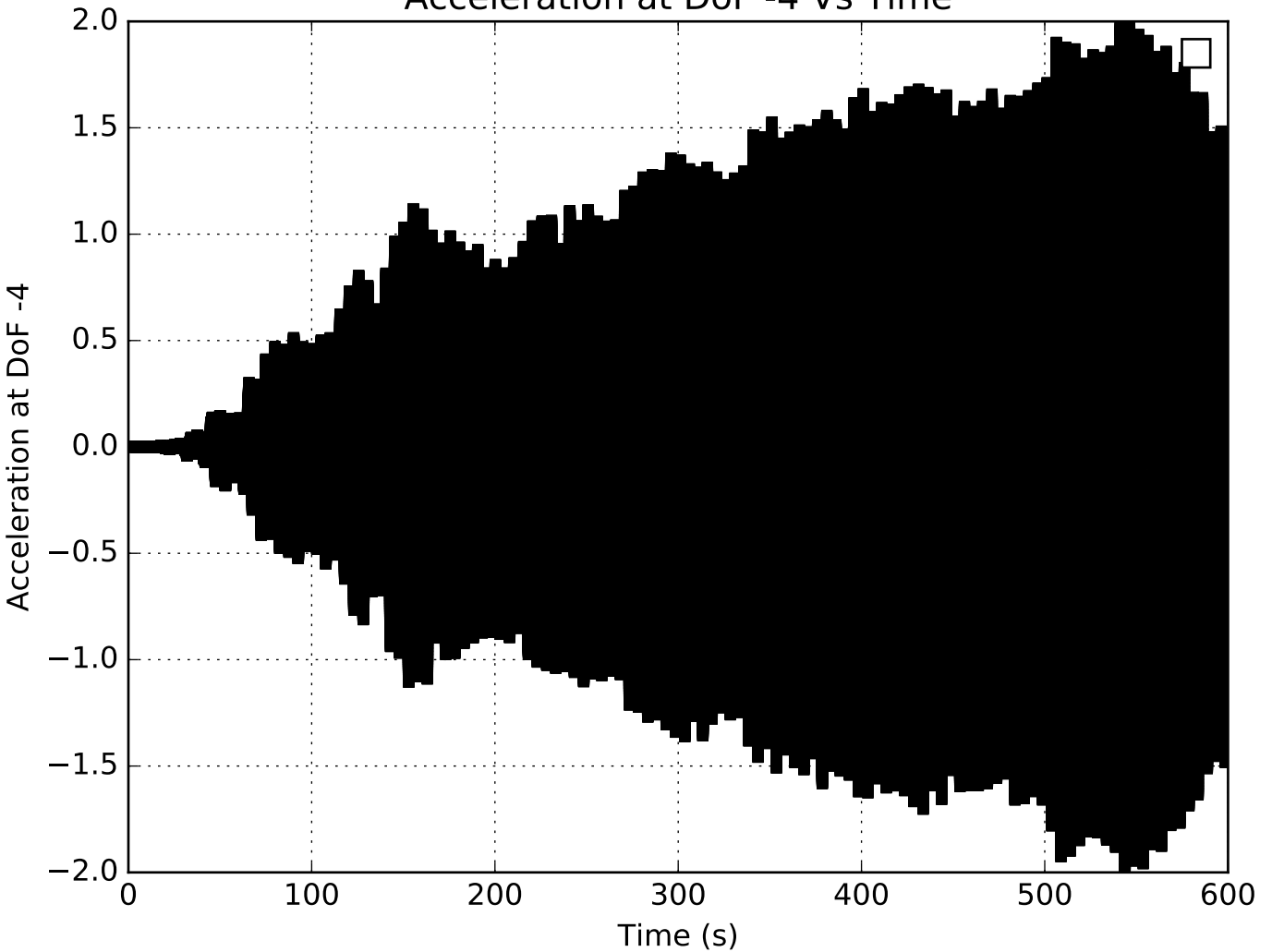

Displacement at DoF -5 Vs Time
Displacement at DoF -5
Time (s)
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
0
100
200
300
400
500
600

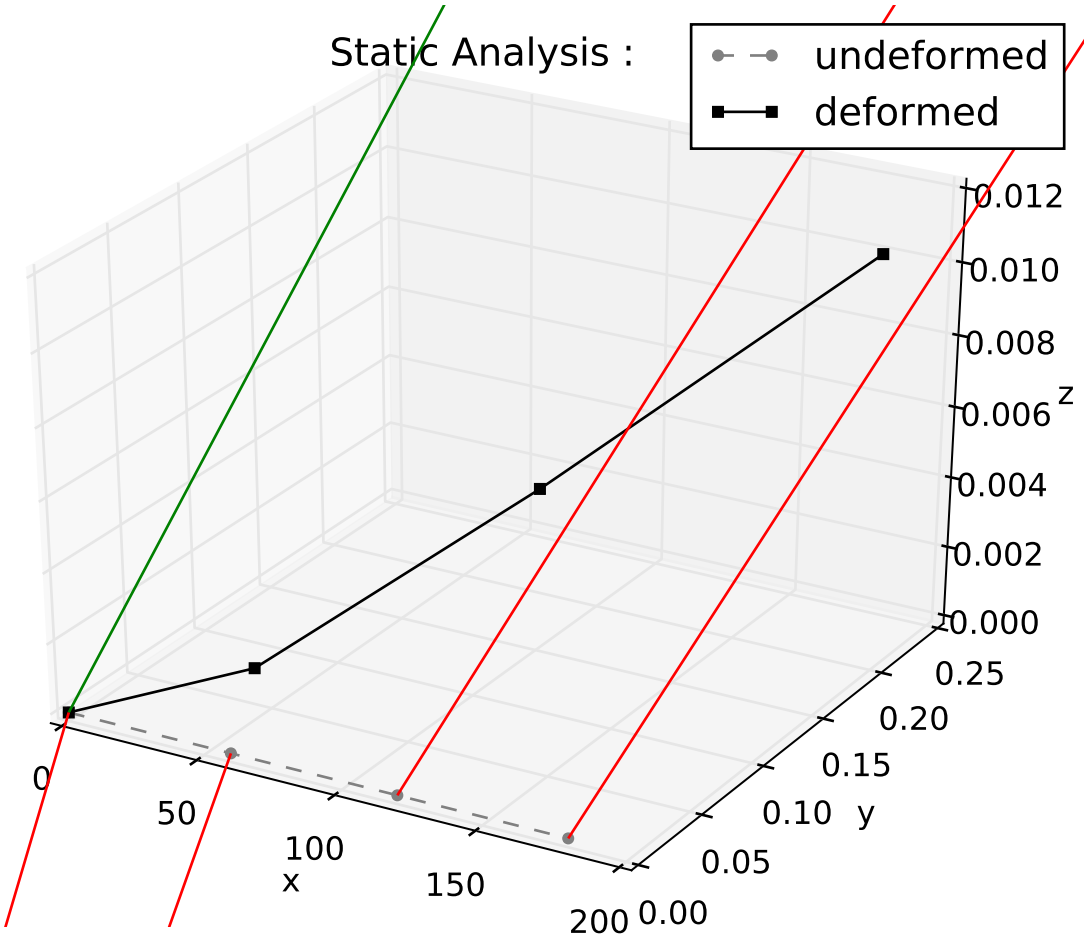

Velocity at DoF -5 Vs Time
1.0
0.5
0.0
−0.5
−1.0
Velocity at DoF -5
0
100
200
300
400
500
600
Time (s)


Acceleration at DoF -5 Vs Time
Acceleration at DoF -5
Time (s)
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
0
100
200
300
400
500
600


Displacement at DoF -4 Vs Time
Displacement at DoF -4
Time (s)
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
0
100
200
300
400
500
600


Velocity at DoF -4 Vs Time
Velocity at DoF -4
Time (s)
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
0
100
200
300
400
500
600


Acceleration at DoF -4 Vs Time
Acceleration at DoF -4
Time (s)
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
0
100
200
300
400
500
600


Static Analysis :
undeformed
deformed
0.012
0.010
0.008
0.006
z
0.004
0.002
0.000
0.25
0.20
0.15
0.10
y
0.05
0.00
0
50
100
x
150
200