

**BS387Frame****Knutepunkter**

Kn.P.	x [m]	y [m]
1	0.000	0.000
2	0.000	8.000
3	0.000	14.000
4	12.000	18.000
5	24.000	14.000
6	24.000	8.000
7	24.000	0.000
8	12.000	8.000
9	12.000	4.000
10	12.000	0.000

**Opplager**

Kn.P.	type	ux [mm]	uy [mm]	ur [rad]
1	fast innspenning			
7	fast innspenning			
10	fast innspenning			

**Materialtyper**

Materialtype: Betong, E= 26.000 [GPa]

Egenlast:  $\rho = 25.000$  [kN/m<sup>3</sup>]

Elementegenlast er inkludert i statisk last og masser

**Elementverrsnitt**

Tverrsn.	b [cm]	h [cm]	b1 [cm]	h1 [cm]	Ac [cm <sup>2</sup> ]	Ic [cm <sup>4</sup> ]
1	30.000	60.000			1.80000E+003	5.40000E+005
2	30.000	60.000			1.80000E+003	5.40000E+005
3	30.000	100.000	120.000	15.000	4.35000E+003	4.20699E+006
4	25.000	50.000	120.000	15.000	2.67500E+003	4.91064E+005
5	30.000	40.000			1.20000E+003	1.60000E+005

**Elementer**

Element	Kn.P 1	Kn.P 2	material	lengde (m)	vinkel (°)
1	1	2	1	8.000	90.000
2	2	3	2	6.000	90.000
3	3	4	3	12.649	18.435
4	4	5	3	12.649	341.565
5	5	6	2	6.000	270.000
6	6	7	1	8.000	270.000
7	2	8	4	12.000	0.000
8	8	6	4	12.000	0.000
9	8	9	5	4.000	270.000
10	9	10	5	4.000	270.000

**Fordelte elementlaster (yg=1.35, yq=1.50)**

element	G [kN/m]	Q [kN/m]	ygG+yqQ [kN/m]	lasttype	lastfordeling
3	20.000	0.000	27.000	jevnt fordelt	horisontalt

**Fordeling av element last fra egenlast (yg=1.35, yq=1.50)**

element	G [kN/m]	Q [kN/m]	ygG+yqQ [kN/m]	lasttype	lastfordeling
1	4.500	0.000	6.075	jevnt fordelt	vertikalt
2	4.500	0.000	6.075	jevnt fordelt	vertikalt
3	10.875	0.000	14.681	jevnt fordelt	vertikalt
4	10.875	0.000	14.681	jevnt fordelt	vertikalt
5	4.500	0.000	6.075	jevnt fordelt	vertikalt
6	4.500	0.000	6.075	jevnt fordelt	vertikalt
7	6.687	0.000	9.027	jevnt fordelt	vertikalt
8	6.687	0.000	9.027	jevnt fordelt	vertikalt
9	3.000	0.000	4.050	jevnt fordelt	vertikalt
10	3.000	0.000	4.050	jevnt fordelt	vertikalt

**Elementfordelte masser fra egenvekt ( $\gamma_g=1.00$ ,  $\gamma_q=0.30$ )**

element	Mg [kN/m]	Mq [kN/m]	$\gamma_g M_g + \gamma_q M_q$ [kN/m]
1	4.500	0.000	4.500
2	4.500	0.000	4.500
3	10.875	0.000	10.875
4	10.875	0.000	10.875
5	4.500	0.000	4.500
6	4.500	0.000	4.500
7	6.687	0.000	6.687
8	6.687	0.000	6.687
9	3.000	0.000	3.000
10	3.000	0.000	3.000

**Knutepunktsforskyvninger**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.000	0.000	0.00000
2	90.864	-0.260	0.01286
3	157.316	-0.405	0.00532
4	163.273	-18.540	-0.00174
5	168.721	-1.156	0.00120
6	91.158	-0.778	0.01403
7	0.000	0.000	0.00000
8	90.927	-0.304	-0.00203
9	47.493	-0.163	0.01756
10	0.000	0.000	0.00000

**Opplagerkrefter**

Kn.P.	Fx [kN]	Fy [kN]	M [kNm]
1	-129.722	176.316	-744.593
7	-115.235	479.388	-707.247
10	-96.569	134.864	-375.722

**Element endekrefter (globalkoordinater)**

element	FxA [kN]	FyA [kN]	MA [kNm]	FxB [kN]	FyB [kN]	MB [kNm]
1	-129.722	176.316	-744.593	129.722	-127.716	-293.187
2	-92.971	131.133	-102.395	92.971	-94.683	-455.433
3	-92.962	94.687	455.433	-248.564	91.018	-166.232
4	248.560	-91.016	166.232	-248.560	276.721	1046.038
5	248.555	-276.727	-1046.038	-248.555	313.177	-445.290
6	115.235	-430.788	-214.633	-115.235	479.388	-707.247
7	-36.750	-3.417	395.582	36.750	111.746	295.393
8	-133.321	-9.282	101.433	133.321	117.611	659.923
9	96.569	-102.464	-396.827	-96.569	118.664	10.553
10	96.569	-118.664	-10.552	-96.569	134.864	-375.722

**Element endekrefter (lokalkoordinater)**

element	fxA [kN]	fyA [kN]	mA [kNm]	fxB [kN]	fyB [kN]	mB [kNm]
1	176.316	129.722	-744.593	-127.716	-129.722	-293.187
2	131.133	92.971	-102.395	-94.683	-92.971	-455.433
3	-58.248	119.225	455.433	-207.027	164.950	-166.232
4	264.587	-7.744	166.232	-323.312	183.919	1046.038
5	276.727	248.555	-1046.038	-313.177	-248.555	-445.290
6	430.788	115.235	-214.633	-479.388	-115.235	-707.247
7	-36.750	-3.417	395.582	36.750	111.746	295.393
8	-133.321	-9.282	101.433	133.321	117.611	659.923
9	102.464	96.569	-396.827	-118.664	-96.569	10.553
10	118.664	96.569	-10.552	-134.864	-96.569	-375.722

**Snittkraftdiagrammer M, V, N, av element 1**

n	x/l	x [m]	M [kNm]	V [kN]	N [kN]
0	0.000	0.00	-744.59	-129.72	-176.32
1	0.100	0.80	-640.81	-129.72	-171.46
2	0.200	1.60	-537.04	-129.72	-166.60
3	0.300	2.40	-433.26	-129.72	-161.74
4	0.400	3.20	-329.48	-129.72	-156.88
5	0.500	4.00	-225.70	-129.72	-152.02
6	0.600	4.80	-121.92	-129.72	-147.16
7	0.700	5.60	-18.15	-129.72	-142.30

8	0.800	6.40	85.63	-129.72	-137.44
9	0.900	7.20	189.41	-129.72	-132.58
10	1.000	8.00	293.19	-129.72	-127.72

Maksimalverdi for element 1

maxM=	293.19 kNm,	mixM=	-744.59 kNm
maxV=	-129.72 kN,	mixV=	-129.72 kN
maxN=	-127.72 kN,	mixN=	-176.32 kN

**Snittkraftdiagrammer M, V, N, av element 2**

n	x/l	x[m]	M[kNm]	V[kN]	N[kN]
0	0.000	0.00	-102.40	-92.97	-131.13
1	0.100	0.60	-46.61	-92.97	-127.49
2	0.200	1.20	9.17	-92.97	-123.84
3	0.300	1.80	64.95	-92.97	-120.20
4	0.400	2.40	120.74	-92.97	-116.55
5	0.500	3.00	176.52	-92.97	-112.91
6	0.600	3.60	232.30	-92.97	-109.26
7	0.700	4.20	288.08	-92.97	-105.62
8	0.800	4.80	343.87	-92.97	-101.97
9	0.900	5.40	399.65	-92.97	-98.33
10	1.000	6.00	455.43	-92.97	-94.68

Maksimalverdi for element 2

maxM=	455.43 kNm,	mixM=	-102.40 kNm
maxV=	-92.97 kN,	mixV=	-92.97 kN
maxN=	-94.68 kN,	mixN=	-131.13 kN

**Snittkraftdiagrammer M, V, N, av element 3**

n	x/l	x[m]	M[kNm]	V[kN]	N[kN]
0	0.000	0.00	455.43	-119.23	58.25
1	0.100	1.26	588.27	-90.81	31.72
2	0.200	2.53	685.16	-62.39	5.19
3	0.300	3.79	746.10	-33.97	-21.33
4	0.400	5.06	771.10	-5.56	-47.86
5	0.500	6.32	760.16	22.86	-74.39
6	0.600	7.59	713.27	51.28	-100.92
7	0.700	8.85	630.43	79.70	-127.44
8	0.800	10.12	511.65	108.11	-153.97
9	0.900	11.38	356.92	136.53	-180.50
10	1.000	12.65	166.24	164.95	-207.03

Maksimalverdi for element 3

maxM=	771.10 kNm,	mixM=	166.24 kNm
maxV=	164.95 kN,	mixV=	-119.23 kN
maxN=	58.25 kN,	mixN=	-207.03 kN

**Snittkraftdiagrammer M, V, N, av element 4**

n	x/l	x[m]	M[kNm]	V[kN]	N[kN]
0	0.000	0.00	166.23	7.74	-264.59
1	0.100	1.26	145.29	25.36	-270.46
2	0.200	2.53	102.07	42.98	-276.33
3	0.300	3.79	36.57	60.60	-282.20
4	0.400	5.06	-51.23	78.21	-288.08
5	0.500	6.32	-161.30	95.83	-293.95
6	0.600	7.59	-293.66	113.45	-299.82
7	0.700	8.85	-448.31	131.07	-305.69
8	0.800	10.12	-625.24	148.68	-311.57
9	0.900	11.38	-824.45	166.30	-317.44
10	1.000	12.65	-1045.95	183.92	-323.31

Maksimalverdi for element 4

maxM=	166.23 kNm,	mixM=	-1045.95 kNm
maxV=	183.92 kN,	mixV=	7.74 kN
maxN=	-264.59 kN,	mixN=	-323.31 kN

**Snittkraftdiagrammer M, V, N, av element 5**

n	x/l	x[m]	M[kNm]	V[kN]	N[kN]
0	0.000	0.00	-1046.04	-248.55	-276.73
1	0.100	0.60	-896.91	-248.55	-280.37
2	0.200	1.20	-747.77	-248.55	-284.02
3	0.300	1.80	-598.64	-248.55	-287.66

4	0.400	2.40	-449.51	-248.55	-291.31
5	0.500	3.00	-300.37	-248.55	-294.95
6	0.600	3.60	-151.24	-248.55	-298.60
7	0.700	4.20	-2.11	-248.55	-302.24
8	0.800	4.80	147.02	-248.55	-305.89
9	0.900	5.40	296.16	-248.55	-309.53
10	1.000	6.00	445.29	-248.55	-313.18

Maksimalverdi for element 5

maxM=	445.29 kNm,	mixM=	-1046.04 kNm
maxV=	-248.55 kN,	mixV=	-248.55 kN
maxN=	-276.73 kN,	mixN=	-313.18 kN

**Snittkraftdiagrammer M, V, N, av element 6**

n	x/l	x[m]	M[kNm]	V[kN]	N[kN]
0	0.000	0.00	-214.63	-115.23	-430.79
1	0.100	0.80	-122.44	-115.23	-435.65
2	0.200	1.60	-30.26	-115.23	-440.51
3	0.300	2.40	61.93	-115.23	-445.37
4	0.400	3.20	154.12	-115.23	-450.23
5	0.500	4.00	246.31	-115.23	-455.09
6	0.600	4.80	338.49	-115.23	-459.95
7	0.700	5.60	430.68	-115.23	-464.81
8	0.800	6.40	522.87	-115.23	-469.67
9	0.900	7.20	615.06	-115.23	-474.53
10	1.000	8.00	707.25	-115.23	-479.39

Maksimalverdi for element 6

maxM=	707.25 kNm,	mixM=	-214.63 kNm
maxV=	-115.23 kN,	mixV=	-115.23 kN
maxN=	-430.79 kN,	mixN=	-479.39 kN

**Snittkraftdiagrammer M, V, N, av element 7**

n	x/l	x[m]	M[kNm]	V[kN]	N[kN]
0	0.000	0.00	395.58	3.42	36.75
1	0.100	1.20	384.98	14.25	36.75
2	0.200	2.40	361.38	25.08	36.75
3	0.300	3.60	324.78	35.92	36.75
4	0.400	4.80	275.19	46.75	36.75
5	0.500	6.00	212.59	57.58	36.75
6	0.600	7.20	136.99	68.41	36.75
7	0.700	8.40	48.39	79.25	36.75
8	0.800	9.60	-53.20	90.08	36.75
9	0.900	10.80	-167.80	100.91	36.75
10	1.000	12.00	-295.39	111.75	36.75

Maksimalverdi for element 7

maxM=	395.58 kNm,	mixM=	-295.39 kNm
maxV=	111.75 kN,	mixV=	3.42 kN
maxN=	36.75 kN,	mixN=	36.75 kN

**Snittkraftdiagrammer M, V, N, av element 8**

n	x/l	x[m]	M[kNm]	V[kN]	N[kN]
0	0.000	0.00	101.43	9.28	133.32
1	0.100	1.20	83.80	20.11	133.32
2	0.200	2.40	53.16	30.95	133.32
3	0.300	3.60	9.52	41.78	133.32
4	0.400	4.80	-47.11	52.61	133.32
5	0.500	6.00	-116.75	63.45	133.32
6	0.600	7.20	-199.39	74.28	133.32
7	0.700	8.40	-295.02	85.11	133.32
8	0.800	9.60	-403.66	95.95	133.32
9	0.900	10.80	-525.29	106.78	133.32
10	1.000	12.00	-659.92	117.61	133.32

Maksimalverdi for element 8

maxM=	101.43 kNm,	mixM=	-659.92 kNm
maxV=	117.61 kN,	mixV=	9.28 kN
maxN=	133.32 kN,	mixN=	133.32 kN

**Snittkraftdiagrammer M, V, N, av element 9**

n	x/l	x[m]	M[kNm]	V[kN]	N[kN]
0	0.000	0.00	-396.83	-96.57	-102.46
1	0.100	0.40	-358.20	-96.57	-104.08
2	0.200	0.80	-319.57	-96.57	-105.70
3	0.300	1.20	-280.94	-96.57	-107.32
4	0.400	1.60	-242.32	-96.57	-108.94
5	0.500	2.00	-203.69	-96.57	-110.56
6	0.600	2.40	-165.06	-96.57	-112.18
7	0.700	2.80	-126.43	-96.57	-113.80
8	0.800	3.20	-87.81	-96.57	-115.42
9	0.900	3.60	-49.18	-96.57	-117.04
10	1.000	4.00	-10.55	-96.57	-118.66

**Maksimalverdi for element 9**

maxM=	-10.55 kNm,	mixM=	-396.83 kNm
maxV=	-96.57 kN,	mixV=	-96.57 kN
maxN=	-102.46 kN,	mixN=	-118.66 kN

**Snittkraftdiagrammer M, V, N, av element 10**

n	x/l	x[m]	M[kNm]	V[kN]	N[kN]
0	0.000	0.00	-10.55	-96.57	-118.66
1	0.100	0.40	28.08	-96.57	-120.28
2	0.200	0.80	66.70	-96.57	-121.90
3	0.300	1.20	105.33	-96.57	-123.52
4	0.400	1.60	143.96	-96.57	-125.14
5	0.500	2.00	182.58	-96.57	-126.76
6	0.600	2.40	221.21	-96.57	-128.38
7	0.700	2.80	259.84	-96.57	-130.00
8	0.800	3.20	298.47	-96.57	-131.62
9	0.900	3.60	337.09	-96.57	-133.24
10	1.000	4.00	375.72	-96.57	-134.86

**Maksimalverdi for element 10**

maxM=	375.72 kNm,	mixM=	-10.55 kNm
maxV=	-96.57 kN,	mixV=	-96.57 kN
maxN=	-118.66 kN,	mixN=	-134.86 kN

**Eigenfrekvensen**

Nr.	Frekvensen[Hz]	Perioden[sec]
1	1.18396	0.84462
2	4.58775	0.21797
3	5.31602	0.18811
4	9.08941	0.11002
5	11.94016	0.08375
6	17.56085	0.05694
7	19.41734	0.05150
8	20.87171	0.04791
9	28.51989	0.03506
10	34.23979	0.02921
11	42.48057	0.02354
12	51.65243	0.01936
13	57.60465	0.01736
14	67.57261	0.01480
15	70.33988	0.01422
16	75.59764	0.01323
17	110.53419	0.00905
18	118.85564	0.00841
19	138.18330	0.00724
20	149.44075	0.00669
21	230.14142	0.00435

**Svingformer****Svingform, for egenfrekvens N=1, f=1.18396[Hz], T=0.84462[sec]**

Kn.P.	ux [mm]	uy[mm]	ur[rad]
1	0.00000	0.00000	0.00000
2	0.09680	0.00024	0.01310
3	0.16045	0.00034	0.00237
4	0.16066	0.00000	-0.00103
5	0.16045	-0.00034	0.00237

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6	0.09680	-0.00024	0.01310
7	0.00000	0.00000	0.00000
8	0.09675	0.00000	-0.00183
9	0.05042	0.00000	0.01859
10	0.00000	0.00000	0.00000

**Svingform, for egenfrekvens N=2, f=4.58775[Hz], T=0.21797[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	0.00204	0.00292	0.01778
3	0.09930	0.00487	-0.02461
4	0.00000	0.30538	0.00000
5	-0.09930	0.00487	0.02461
6	-0.00204	0.00292	-0.01778
7	0.00000	0.00000	0.00000
8	0.00000	-0.00023	0.00000
9	0.00000	-0.00012	0.00000
10	0.00000	0.00000	0.00000

**Svingform, for egenfrekvens N=3, f=5.31602[Hz], T=0.18811[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	0.18709	-0.00164	-0.01987
3	-0.08888	-0.00264	-0.01603
4	-0.09069	0.00000	0.00769
5	-0.08888	0.00264	-0.01603
6	0.18709	0.00164	-0.01987
7	0.00000	0.00000	0.00000
8	0.18863	0.00000	0.02355
9	0.07822	0.00000	0.02920
10	0.00000	0.00000	0.00000

**Svingform, for egenfrekvens N=4, f=9.08941[Hz], T=0.11002[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	-0.02178	-0.00146	-0.04862
3	0.02990	-0.00020	0.01530
4	0.03053	0.00000	-0.01079
5	0.02990	0.00020	0.01530
6	-0.02178	0.00146	-0.04862
7	0.00000	0.00000	0.00000
8	-0.02197	0.00000	0.15992
9	-0.20562	0.00000	-0.04551
10	0.00000	0.00000	0.00000

**Svingform, for egenfrekvens N=5, f=11.94016[Hz], T=0.08375[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	0.02430	0.01088	-0.00775
3	0.02283	0.01845	0.07400
4	0.02751	0.00000	-0.08225
5	0.02283	-0.01845	0.07400
6	0.02430	-0.01088	-0.00775
7	0.00000	0.00000	0.00000
8	0.02537	0.00000	-0.03063
9	0.06410	0.00000	0.01277
10	0.00000	0.00000	0.00000

**Svingform, for egenfrekvens N=6, f=17.56085[Hz], T=0.05694[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	-0.00194	0.00298	-0.15321
3	-0.01568	0.01874	0.06686
4	0.00000	-0.01113	0.00000
5	0.01568	0.01874	-0.06686
6	0.00194	0.00298	0.15321
7	0.00000	0.00000	0.00000
8	0.00000	-0.03126	0.00000

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9	0.00000	-0.01578	0.00000
10	0.00000	0.00000	0.00000

**Svingeform, for egenfrekvens N=7, f=19.41734[Hz], T=0.05150[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	-0.00438	0.05838	0.06471
3	-0.05841	0.08838	0.09336
4	0.00000	-0.06628	0.00000
5	0.05841	0.08838	-0.09336
6	0.00438	0.05838	-0.06471
7	0.00000	0.00000	0.00000
8	0.00000	0.02454	0.00000
9	0.00000	0.01242	0.00000
10	0.00000	0.00000	0.00000

**Svingeform, for egenfrekvens N=8, f=20.87171[Hz], T=0.04791[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	0.03199	0.00991	0.05364
3	-0.00570	0.01083	-0.00197
4	-0.00283	0.00000	-0.00282
5	-0.00570	-0.01083	-0.00197
6	0.03199	-0.00991	0.05364
7	0.00000	0.00000	0.00000
8	0.02664	0.00000	0.01939
9	-1.00690	0.00000	-0.00135
10	0.00000	0.00000	0.00000

**Svingeform, for egenfrekvens N=9, f=28.51989[Hz], T=0.03506[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	-0.01634	0.06656	0.19694
3	-0.02340	0.08289	-0.00719
4	0.00634	0.00000	0.01768
5	-0.02340	-0.08289	-0.00719
6	-0.01634	-0.06656	0.19694
7	0.00000	0.00000	0.00000
8	-0.01413	0.00000	0.21242
9	0.18133	0.00000	-0.07755
10	0.00000	0.00000	0.00000

**Svingeform, for egenfrekvens N=10, f=34.23979[Hz], T=0.02921[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	0.00935	0.11855	-0.10931
3	-0.07069	0.18927	0.05564
4	0.00871	0.00000	0.14402
5	-0.07069	-0.18927	0.05564
6	0.00935	-0.11855	-0.10931
7	0.00000	0.00000	0.00000
8	0.01134	0.00000	-0.06248
9	-0.02675	0.00000	0.02731
10	0.00000	0.00000	0.00000

**Svingeform, for egenfrekvens N=11, f=42.48057[Hz], T=0.02354[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	-0.00930	-0.04151	-0.08277
3	0.01940	-0.05135	0.02861
4	0.00000	-0.01179	0.00000
5	-0.01940	-0.05135	-0.02861
6	0.00930	-0.04151	0.08277
7	0.00000	0.00000	0.00000
8	0.00000	0.41036	0.00000
9	0.00000	0.21708	0.00000
10	0.00000	0.00000	0.00000

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**Svingeform, for egenfrekvens N=12, f=51.65243[Hz], T=0.01936[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	-0.21785	0.14150	-0.07118
3	-0.07637	0.18187	-0.11894
4	0.00000	0.06559	0.00000
5	0.07637	0.18187	0.11894
6	0.21785	0.14150	0.07118
7	0.00000	0.00000	0.00000
8	0.00000	0.03917	0.00000
9	0.00000	0.02130	0.00000
10	0.00000	0.00000	0.00000

**Svingeform, for egenfrekvens N=13, f=57.60465[Hz], T=0.01736[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	0.22196	0.18620	-0.11611
3	-0.04610	0.23353	-0.13769
4	0.00000	0.03931	0.00000
5	0.04610	0.23353	0.13769
6	-0.22196	0.18620	0.11611
7	0.00000	0.00000	0.00000
8	0.00000	0.07672	0.00000
9	0.00000	0.04259	0.00000
10	0.00000	0.00000	0.00000

**Svingeform, for egenfrekvens N=14, f=67.57261[Hz], T=0.01480[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	0.00483	0.21766	-0.13118
3	-0.04660	0.22447	-0.24272
4	0.02071	0.00000	-0.15357
5	-0.04660	-0.22447	-0.24272
6	0.00483	-0.21766	-0.13118
7	0.00000	0.00000	0.00000
8	0.03997	0.00000	-0.04191
9	-0.00644	0.00000	0.09126
10	0.00000	0.00000	0.00000

**Svingeform, for egenfrekvens N=15, f=70.33988[Hz], T=0.01422[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	-0.06163	0.05539	-0.00169
3	0.27337	0.02966	0.05645
4	0.00000	-0.16472	0.00000
5	-0.27337	0.02966	-0.05645
6	0.06163	0.05539	0.00169
7	0.00000	0.00000	0.00000
8	0.00000	-0.02164	0.00000
9	0.00000	-0.01267	0.00000
10	0.00000	0.00000	0.00000

**Svingeform, for egenfrekvens N=16, f=75.59764[Hz], T=0.01323[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	0.01710	-0.00813	0.02436
3	0.00165	-0.00784	0.00872
4	-0.00034	0.00000	0.00531
5	0.00165	0.00784	0.00872
6	0.01710	0.00813	0.02436
7	0.00000	0.00000	0.00000
8	-0.01580	0.00000	0.03392
9	0.00029	0.00000	1.62791
10	0.00000	0.00000	0.00000



**Svingeform, for egenfrekvens N=17, f=110.53419[Hz], T=0.00905[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	-0.22899	-0.09764	0.04884
3	-0.08504	0.00106	0.00053
4	0.11908	0.00000	-0.00938
5	-0.08504	-0.00106	0.00053
6	-0.22899	0.09764	0.04884
7	0.00000	0.00000	0.00000
8	0.34683	0.00000	0.00815
9	-0.06975	0.00000	0.21368
10	0.00000	0.00000	0.00000

**Svingeform, for egenfrekvens N=18, f=118.85564[Hz], T=0.00841[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	0.13012	-0.13257	0.01449
3	-0.23035	0.11573	-0.10686
4	0.24812	0.00000	-0.07188
5	-0.23035	-0.11573	-0.10686
6	0.13012	0.13257	0.01449
7	0.00000	0.00000	0.00000
8	-0.16730	0.00000	-0.02387
9	0.03588	0.00000	-0.11129
10	0.00000	0.00000	0.00000

**Svingeform, for egenfrekvens N=19, f=138.18330[Hz], T=0.00724[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	0.00049	-0.29950	0.10084
3	-0.01338	0.32554	-0.13269
4	0.00000	0.00909	0.00000
5	0.01338	0.32554	0.13269
6	-0.00049	-0.29950	-0.10084
7	0.00000	0.00000	0.00000
8	0.00000	0.00290	0.00000
9	0.00000	0.00286	0.00000
10	0.00000	0.00000	0.00000

**Svingeform, for egenfrekvens N=20, f=149.44075[Hz], T=0.00669[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	0.00748	0.24430	-0.08201
3	-0.10392	-0.33586	0.14988
4	0.18309	0.00000	0.01598
5	-0.10392	0.33586	0.14988
6	0.00748	-0.24429	-0.08201
7	0.00000	0.00000	0.00000
8	-0.00690	0.00000	0.00442
9	0.00062	0.00000	-0.00072
10	0.00000	0.00000	0.00000

**Svingeform, for egenfrekvens N=21, f=230.14142[Hz], T=0.00435[sec]**

Kn.P.	ux [mm]	uy [mm]	ur [rad]
1	0.00000	0.00000	0.00000
2	-0.00477	-0.00148	0.02898
3	0.00448	-0.00519	0.00416
4	0.00000	-0.00254	0.00000
5	-0.00448	-0.00519	-0.00416
6	0.00477	-0.00148	-0.02898
7	0.00000	0.00000	0.00000
8	0.00000	-0.13120	0.00000
9	0.00000	1.09017	0.00000
10	0.00000	0.00000	0.00000

**BS387Frame****Stivhetsmatrise (6x6) av element 1**

element fra knutepunkt 1 til knutepunkt 2

elementlengde l=8.000m, vinkel a=90.000°

elastisitetmodul E=26000000.000 kN/m<sup>2</sup>tverrsnittsareal A= 1.8000E-001 m<sup>2</sup>, og treghetsmoment I=5.4000E-003 m<sup>4</sup>

	1	2	3	4	5	6
1	3.2906E+003	0.0000E+000	1.3162E+004	-3.2906E+003	0.0000E+000	1.3162E+004
2	0.0000E+000	5.8500E+005	0.0000E+000	0.0000E+000	-5.8500E+005	0.0000E+000
3	1.3162E+004	0.0000E+000	7.0200E+004	-1.3162E+004	0.0000E+000	3.5100E+004
4	-3.2906E+003	0.0000E+000	-1.3162E+004	3.2906E+003	0.0000E+000	-1.3162E+004
5	0.0000E+000	-5.8500E+005	0.0000E+000	0.0000E+000	5.8500E+005	0.0000E+000
6	1.3162E+004	0.0000E+000	3.5100E+004	-1.3162E+004	0.0000E+000	7.0200E+004

**Stivhetsmatrise (6x6) av element 2**

element fra knutepunkt 2 til knutepunkt 3

elementlengde l=6.000m, vinkel a=90.000°

elastisitetmodul E=26000000.000 kN/m<sup>2</sup>tverrsnittsareal A= 1.8000E-001 m<sup>2</sup>, og treghetsmoment I=5.4000E-003 m<sup>4</sup>

	1	2	3	4	5	6
1	7.8000E+003	0.0000E+000	2.3400E+004	-7.8000E+003	0.0000E+000	2.3400E+004
2	0.0000E+000	7.8000E+005	0.0000E+000	0.0000E+000	-7.8000E+005	0.0000E+000
3	2.3400E+004	0.0000E+000	9.3600E+004	-2.3400E+004	0.0000E+000	4.6800E+004
4	-7.8000E+003	0.0000E+000	-2.3400E+004	7.8000E+003	0.0000E+000	-2.3400E+004
5	0.0000E+000	-7.8000E+005	0.0000E+000	0.0000E+000	7.8000E+005	0.0000E+000
6	2.3400E+004	0.0000E+000	4.6800E+004	-2.3400E+004	0.0000E+000	9.3600E+004

**Stivhetsmatrise (6x6) av element 3**

element fra knutepunkt 3 til knutepunkt 4

elementlengde l=12.649m, vinkel a=18.435°

elastisitetmodul E=26000000.000 kN/m<sup>2</sup>tverrsnittsareal A= 4.3500E-001 m<sup>2</sup>, og treghetsmoment I=4.2070E-002 m<sup>4</sup>

	1	2	3	4	5	6
1	8.0537E+005	2.6629E+005	1.2971E+004	-8.0537E+005	-2.6629E+005	1.2971E+004
2	2.6629E+005	9.5250E+004	-3.8913E+004	-2.6629E+005	-9.5250E+004	-3.8913E+004
3	1.2971E+004	-3.8913E+004	3.4590E+005	-1.2971E+004	3.8913E+004	1.7295E+005
4	-8.0537E+005	-2.6629E+005	-1.2971E+004	8.0537E+005	2.6629E+005	-1.2971E+004
5	-2.6629E+005	-9.5250E+004	3.8913E+004	2.6629E+005	9.5250E+004	3.8913E+004
6	1.2971E+004	-3.8913E+004	1.7295E+005	-1.2971E+004	3.8913E+004	3.4590E+005

**Stivhetsmatrise (6x6) av element 4**

element fra knutepunkt 4 til knutepunkt 5

elementlengde l=12.649m, vinkel a=341.565°

elastisitetmodul E=26000000.000 kN/m<sup>2</sup>tverrsnittsareal A= 4.3500E-001 m<sup>2</sup>, og treghetsmoment I=4.2070E-002 m<sup>4</sup>

	1	2	3	4	5	6
1	8.0537E+005	-2.6629E+005	-1.2971E+004	-8.0537E+005	2.6629E+005	-1.2971E+004
2	-2.6629E+005	9.5250E+004	-3.8913E+004	2.6629E+005	-9.5250E+004	-3.8913E+004
3	-1.2971E+004	-3.8913E+004	3.4590E+005	1.2971E+004	3.8913E+004	1.7295E+005
4	-8.0537E+005	2.6629E+005	1.2971E+004	8.0537E+005	-2.6629E+005	1.2971E+004
5	2.6629E+005	-9.5250E+004	3.8913E+004	-2.6629E+005	9.5250E+004	3.8913E+004
6	-1.2971E+004	-3.8913E+004	1.7295E+005	1.2971E+004	3.8913E+004	3.4590E+005

**Stivhetsmatrise (6x6) av element 5**

element fra knutepunkt 5 til knutepunkt 6

elementlengde l=6.000m, vinkel a=270.000°

elastisitetmodul E=26000000.000 kN/m<sup>2</sup>tverrsnittsareal A= 1.8000E-001 m<sup>2</sup>, og treghetsmoment I=5.4000E-003 m<sup>4</sup>

	1	2	3	4	5	6
1	7.8000E+003	0.0000E+000	-2.3400E+004	-7.8000E+003	0.0000E+000	-2.3400E+004
2	0.0000E+000	7.8000E+005	0.0000E+000	0.0000E+000	-7.8000E+005	0.0000E+000
3	-2.3400E+004	0.0000E+000	9.3600E+004	2.3400E+004	0.0000E+000	4.6800E+004
4	-7.8000E+003	0.0000E+000	2.3400E+004	7.8000E+003	0.0000E+000	2.3400E+004
5	0.0000E+000	-7.8000E+005	0.0000E+000	0.0000E+000	7.8000E+005	0.0000E+000
6	-2.3400E+004	0.0000E+000	4.6800E+004	2.3400E+004	0.0000E+000	9.3600E+004

**Stivhetsmatrise (6x6) av element 6**

element fra knutepunkt 6 til knutepunkt 7

elementlengde l=8.000m, vinkel a=270.000°

elastisitetmodul E=26000000.000 kN/m<sup>2</sup>tverrsnittsareal A= 1.8000E-001 m<sup>2</sup>, og treghetsmoment I=5.4000E-003 m<sup>4</sup>

	1	2	3	4	5	6
1	3.2906E+003	0.0000E+000	-1.3162E+004	-3.2906E+003	0.0000E+000	-1.3162E+004
2	0.0000E+000	5.8500E+005	0.0000E+000	0.0000E+000	-5.8500E+005	0.0000E+000
3	-1.3162E+004	0.0000E+000	7.0200E+004	1.3162E+004	0.0000E+000	3.5100E+004
4	-3.2906E+003	0.0000E+000	1.3162E+004	3.2906E+003	0.0000E+000	1.3162E+004
5	0.0000E+000	-5.8500E+005	0.0000E+000	0.0000E+000	5.8500E+005	0.0000E+000
6	-1.3162E+004	0.0000E+000	3.5100E+004	1.3162E+004	0.0000E+000	7.0200E+004

**Stivhetsmatrise (6x6) av element 7**

element fra knutepunkt 2 til knutepunkt 8

elementlengde l=12.000m, vinkel a=0.000°

elastisitetmodul E=26000000.000 kN/m<sup>2</sup>tverrsnittsareal A= 2.6750E-001 m<sup>2</sup>, og treghetsmoment I=4.9106E-003 m<sup>4</sup>

	1	2	3	4	5	6
1	5.7958E+005	0.0000E+000	0.0000E+000	-5.7958E+005	0.0000E+000	0.0000E+000
2	0.0000E+000	8.8664E+002	-5.3199E+003	0.0000E+000	-8.8664E+002	-5.3199E+003
3	0.0000E+000	-5.3199E+003	4.2559E+004	0.0000E+000	5.3199E+003	2.1279E+004
4	-5.7958E+005	0.0000E+000	0.0000E+000	5.7958E+005	0.0000E+000	0.0000E+000
5	0.0000E+000	-8.8664E+002	5.3199E+003	0.0000E+000	8.8664E+002	5.3199E+003
6	0.0000E+000	-5.3199E+003	2.1279E+004	0.0000E+000	5.3199E+003	4.2559E+004

**Stivhetsmatrise (6x6) av element 8**

element fra knutepunkt 8 til knutepunkt 6

elementlengde l=12.000m, vinkel a=0.000°

elastisitetmodul E=26000000.000 kN/m<sup>2</sup>tverrsnittsareal A= 2.6750E-001 m<sup>2</sup>, og treghetsmoment I=4.9106E-003 m<sup>4</sup>

	1	2	3	4	5	6
1	5.7958E+005	0.0000E+000	0.0000E+000	-5.7958E+005	0.0000E+000	0.0000E+000
2	0.0000E+000	8.8664E+002	-5.3199E+003	0.0000E+000	-8.8664E+002	-5.3199E+003
3	0.0000E+000	-5.3199E+003	4.2559E+004	0.0000E+000	5.3199E+003	2.1279E+004
4	-5.7958E+005	0.0000E+000	0.0000E+000	5.7958E+005	0.0000E+000	0.0000E+000
5	0.0000E+000	-8.8664E+002	5.3199E+003	0.0000E+000	8.8664E+002	5.3199E+003
6	0.0000E+000	-5.3199E+003	2.1279E+004	0.0000E+000	5.3199E+003	4.2559E+004

**Stivhetsmatrise (6x6) av element 9**

element fra knutepunkt 8 til knutepunkt 9

elementlengde l=4.000m, vinkel a=270.000°

elastisitetmodul E=26000000.000 kN/m<sup>2</sup>tverrsnittsareal A= 1.2000E-001 m<sup>2</sup>, og treghetsmoment I=1.6000E-003 m<sup>4</sup>

	1	2	3	4	5	6
1	7.8000E+003	0.0000E+000	-1.5600E+004	-7.8000E+003	0.0000E+000	-1.5600E+004
2	0.0000E+000	7.8000E+005	0.0000E+000	0.0000E+000	-7.8000E+005	0.0000E+000
3	-1.5600E+004	0.0000E+000	4.1600E+004	1.5600E+004	0.0000E+000	2.0800E+004
4	-7.8000E+003	0.0000E+000	1.5600E+004	7.8000E+003	0.0000E+000	1.5600E+004
5	0.0000E+000	-7.8000E+005	0.0000E+000	0.0000E+000	7.8000E+005	0.0000E+000
6	-1.5600E+004	0.0000E+000	2.0800E+004	1.5600E+004	0.0000E+000	4.1600E+004

**Stivhetsmatrise (6x6) av element 10**

element fra knutepunkt 9 til knutepunkt 10

elementlengde l=4.000m, vinkel a=270.000°

elastisitetmodul E=26000000.000 kN/m<sup>2</sup>tverrsnittsareal A= 1.2000E-001 m<sup>2</sup>, og treghetsmoment I=1.6000E-003 m<sup>4</sup>

	1	2	3	4	5	6
1	7.8000E+003	0.0000E+000	-1.5600E+004	-7.8000E+003	0.0000E+000	-1.5600E+004
2	0.0000E+000	7.8000E+005	0.0000E+000	0.0000E+000	-7.8000E+005	0.0000E+000
3	-1.5600E+004	0.0000E+000	4.1600E+004	1.5600E+004	0.0000E+000	2.0800E+004
4	-7.8000E+003	0.0000E+000	1.5600E+004	7.8000E+003	0.0000E+000	1.5600E+004
5	0.0000E+000	-7.8000E+005	0.0000E+000	0.0000E+000	7.8000E+005	0.0000E+000
6	-1.5600E+004	0.0000E+000	2.0800E+004	1.5600E+004	0.0000E+000	4.1600E+004

**BS387Frame**

Matrise [K] [u]=[P]

Stivhetsmatrise [K]

1	1	2	3	4	5	6
1	1.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
2	1.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
3	1.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
4	5.9067E+005	0.0000E+000	1.0238E+004	-7.8000E+003	0.0000E+000	2.3400E+004
5	1.3659E+006	-5.3199E+003	0.0000E+000	-7.8000E+005	0.0000E+000	0.0000E+000
6	2.0636E+005	-2.3400E+004	0.0000E+000	4.6800E+004	0.0000E+000	0.0000E+000
7	8.1317E+005	2.6629E+005	-1.0429E+004	-8.0537E+005	-2.6629E+005	1.2971E+004
8	8.7525E+005	-3.8913E+004	-2.6629E+005	-9.5250E+004	-3.8913E+004	0.0000E+000
9	4.3950E+005	-1.2971E+004	3.8913E+004	1.7295E+005	0.0000E+000	0.0000E+000
10	1.6107E+006	0.0000E+000	-2.5942E+004	-8.0537E+005	2.6629E+005	-1.2971E+004
11	1.9050E+005	0.0000E+000	2.6629E+005	-9.5250E+004	-3.8913E+004	0.0000E+000
12	6.9179E+005	1.2971E+004	3.8913E+004	1.7295E+005	0.0000E+000	0.0000E+000
13	8.1317E+005	-2.6629E+005	-1.0429E+004	-7.8000E+003	0.0000E+000	-2.3400E+004
14	8.7525E+005	3.8913E+004	0.0000E+000	-7.8000E+005	0.0000E+000	0.0000E+000
15	4.3950E+005	2.3400E+004	0.0000E+000	4.6800E+004	0.0000E+000	0.0000E+000
16	5.9067E+005	0.0000E+000	1.0238E+004	0.0000E+000	0.0000E+000	0.0000E+000
17	1.3659E+006	5.3199E+003	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
18	2.0636E+005	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	-5.3199E+003
19	1.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
20	1.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
21	1.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
22	1.1670E+006	0.0000E+000	-1.5600E+004	-7.8000E+003	0.0000E+000	-1.5600E+004
23	7.8177E+005	0.0000E+000	0.0000E+000	-7.8000E+005	0.0000E+000	0.0000E+000
24	1.2672E+005	1.5600E+004	0.0000E+000	2.0800E+004	0.0000E+000	0.0000E+000
25	1.5600E+004	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
26	1.5600E+006	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
27	8.3200E+004	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
28	1.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
29	1.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
30	1.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
2	7	8	9	10	11	12
1	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
2	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
3	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
4	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
5	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
6	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
7	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
8	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
9	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
10	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
11	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
12	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
13	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
14	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
15	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
16	-5.7958E+005	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
17	-8.8664E+002	5.3199E+003	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
18	2.1279E+004	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
19	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
20	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
21	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
22	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
23	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
24	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
25	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
26	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
27	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
28	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
29	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
30	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000	0.0000E+000
3	13	14	15	16	17	18



Lastematrise [P]

1	0.0000E+000
2	0.0000E+000
3	0.0000E+000
4	0.0000E+000
5	-9.6690E+001
6	1.0833E+002
7	1.7076E+002
8	-1.1108E+002
9	2.9955E+002
10	1.7076E+002
11	-1.8570E+002
12	-1.1384E+002
13	0.0000E+000
14	-1.1108E+002
15	-1.8570E+002
16	0.0000E+000
17	-9.6690E+001
18	-1.0833E+002
19	0.0000E+000
20	0.0000E+000
21	0.0000E+000
22	0.0000E+000
23	-1.1643E+002
24	0.0000E+000
25	0.0000E+000
26	-1.6200E+001
27	0.0000E+000
28	0.0000E+000
29	0.0000E+000
30	0.0000E+000

Forskyvningmatrise [u] i m

1	0.0000E+000
2	0.0000E+000
3	0.0000E+000
4	9.0864E-002
5	-2.5986E-004
6	1.2861E-002
7	1.5732E-001
8	-4.0461E-004
9	5.3170E-003
10	1.6327E-001
11	-1.8540E-002
12	-1.7415E-003
13	1.6872E-001
14	-1.1561E-003
15	1.1981E-003
16	9.1158E-002
17	-7.7793E-004
18	1.4035E-002
19	0.0000E+000
20	0.0000E+000
21	0.0000E+000
22	9.0927E-002
23	-3.0427E-004
24	-2.0293E-003
25	4.7493E-002
26	-1.6252E-004
27	1.7556E-002
28	0.0000E+000
29	0.0000E+000
30	0.0000E+000



