

FULL: $\kappa = 1, \nu = 10, \nu_m = 1e4$

1	DoF	Soln Time	picard iterations	Outer its	Inner its
4	6,180	1.192500	4	17	13
5	24,132	3.582500	4	6	14
6	95,364	13.290000	5	12	13
7	379,140	96.188000	5	15	16
8	1,511,940	552.698000	5	17	17
9	6,038,532	1389.535455	11	8	18

Table 1: Outer Tol: 1e-06, Inner Tol: 1e-06

l	Dofs	Soln Time	Picard Its	Outer Its	Inner Its
4	6,180	0.7375	4	15	11
5	24,132	3.1250	4	16	10
6	95,364	17.6350	4	17	10
7	379,140	102.9075	4	17	15
8	1,511,940	482.0720	5	15	16
9	6,038,532	1502.8700	6	11	13

Table 2: Outer Tol: 1e-06, Inner Tol: 1e-05

l	Dofs	Soln Time	Picard Its	Outer Its	Inner Its
4	6,180	0.752500	4	17	8
5	24,132	2.667500	4	16	10
6	95,364	11.072000	5	13	10
7	379,140	73.170000	4	17	10
8	1,511,940	225.831667	12	10	11
9	6,038,532	2282.706250	8	17	10

Table 3: Outer Tol: 1e-06, Inner Tol: 1e-04

l	Dofs	Soln Time	Picard Its	Outer Its	Inner Its
4	6,180	0.560000	4	19	7
5	24,132	2.147500	4	21	5
6	95,364	10.520000	4	22	4
7	379,140	55.115000	4	21	7
8	1,511,940	432.436000	5	29	7
9	6,038,532	1453.753333	6	19	8

Table 4: Outer Tol: 1e-06, Inner Tol: 1e-03

l	Dofs	Soln Time	Picard Its	Outer Its	Inner Its
4	6180	5.460000	4	28	11
5	24132	3.570000	4	18	9
6	95364	14.880000	4	16	10
7	379140	111.387500	4	20	14
8	1511940	401.640000	5	16	13
9	6038532	1291.731429	7	9	16

Table 5: Outer Tol: 1e-06, Inner Tol: [1e-05, 2e-05,3e-05,4e-05,5e-05,6e-05,7e-05]

l	Dofs	Soln Time	Picard Its	Outer Its	Inner Its
4	6180	0.977500	4	18	7
5	24132	1589.292500	4	391	24
6	95364	12.462000	5	15	7
7	379140	95.385000	4	18	12
8	1511940	333.484000	5	15	9
9	6038532	1215.762222	9	11	11

Table 6: Outer Tol: 1e-06 Inner Tol: [5e-05,0.0001,0.00015,0.0002,0.00025,0.0003,0.00035,0.0004,0.00045]

l	Dofs	Soln Time	Picard Its	Outer Its	Inner Its
4	6180	0.655000	4	17	8
5	24132	2.575000	4	18	7
6	95364	11.270000	5	15	8
7	379140	68.420000	4	17	8
8	1511940	379.842000	5	20	9
9	6038532	1940.783846	13	16	6

Table 7: Outer Tol: 1e-06 Inner Tol: [0.0001,0.0002,0.0003,0.0004,0.0005,0.0006,0.0007,0.0008,0.0009,0.001,0.0011,0.0012,0.0013]

l	Dofs	Soln Time	Picard Its	Outer Its	Inner Its
4	6180	1.364	5	32	12
5	24,132	5.602	5	32	14
6	95,364	35.694	5	42	13
7	379,140	62.528	5	27	10
8	1,511,940	329.054	5	32	13

Table 8: Outer Tol: 1e-06 Inner Tol: [1e-06, 9.999999999999999e-06, 9.999999999999999e-05, 0.001, 0.001]

CD: $\kappa = 1, \nu = 10, \nu_m = 1e4$

	l	DoF	Soln Time	picard iterations	S iters	M iters
4	6180	0.031555	5	30	3	
5	24,132	0.140316	5	29	3	
6	95,364	0.783560	5	29	3	
7	379,140	4.841309	5	29	3	
8	1,511,940	35.834068	5	40	4	

Table 9: S Tol: 1e-06, M Tol: 1e-06]