

Table 1: Mean accuracy **All countries, equal weighted**, 1000 particles, **pacc =.03**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.22	0.50	0.02	0.06	0.31
	L4*	0.23	0.52	0.03	0.07	0.29
	Eu	0.27	0.48	0.09	0.06	0.46
	Naive L4	0.34	0.99	0.03	0.06	0.27
	Naive Eu	0.57	1.45	0.14	0.13	0.55
ReAbs Bias	L4	0.57	0.63	0.04	0.63	0.97
	L4*	0.56	0.65	0.04	0.67	0.86
	Eu	0.64	0.58	0.15	0.53	1.30
	Naive L4	0.68	1.25	0.04	0.61	0.82
	Naive Eu	1.20	1.76	0.24	1.21	1.58
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.24	0.52	0.03	0.08	0.33
	L4*	0.27	0.57	0.03	0.09	0.40
	Eu	0.30	0.51	0.09	0.06	0.52
	Naive L4	0.36	0.99	0.03	0.08	0.33
	Naive Eu	0.59	1.45	0.14	0.16	0.63
Relative Bias	L4	0.64	0.66	0.04	0.80	1.05
	L4*	0.71	0.71	0.05	0.88	1.22
	Eu	0.71	0.62	0.15	0.61	1.44
	Naive L4	0.78	1.25	0.04	0.81	1.02
	Naive Eu	1.34	1.75	0.24	1.48	1.89

Table 2: IQR and coverage of **All countries, equal weighted**, 1000 particles, pacc =.03

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.10	0.15	0.05	0.04	0.16
	L4*	0.13	0.22	0.05	0.05	0.19
	Eu	0.19	0.26	0.16	0.06	0.26
	Naive L4	0.11	0.17	0.06	0.05	0.15
	Naive Eu	0.23	0.32	0.21	0.10	0.27
95% Range	L4	0.27	0.42	0.13	0.13	0.41
	L4*	0.34	0.59	0.15	0.15	0.48
	Eu	0.45	0.67	0.38	0.15	0.59
	Naive L4	0.31	0.51	0.18	0.16	0.40
	Naive Eu	0.55	0.83	0.49	0.25	0.62
IQR CR	L4	0.67	0.57	0.71	0.81	0.59
	L4*	0.64	0.58	0.63	0.72	0.63
	Eu	0.58	0.50	0.60	0.69	0.52
	Naive L4	0.62	0.49	0.72	0.79	0.49
	Naive Eu	0.53	0.44	0.55	0.69	0.44
95% CR	L4	0.96	0.94	0.98	0.99	0.95
	L4*	0.98	0.97	0.97	0.99	0.98
	Eu	0.94	0.90	0.95	0.98	0.92
	Naive L4	0.94	0.90	0.97	0.98	0.90
	Naive Eu	0.90	0.84	0.95	0.98	0.84

Table 3: Mean accuracy **All countries, population weighted**, 1000 particles, **pacc = .03**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.17	0.38	0.02	0.05	0.24
	L4*	0.17	0.38	0.02	0.06	0.22
	Eu	0.22	0.36	0.08	0.05	0.40
	Naive L4	0.25	0.71	0.02	0.05	0.22
	Naive Eu	0.43	1.02	0.12	0.10	0.49
ReAbs Bias	L4	0.48	0.59	0.03	0.66	0.63
	L4*	0.45	0.54	0.03	0.62	0.60
	Eu	0.61	0.50	0.14	0.55	1.26
	Naive L4	0.55	1.09	0.03	0.52	0.55
	Naive Eu	1.06	1.37	0.21	1.06	1.59
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.18	0.39	0.02	0.06	0.26
	L4*	0.20	0.41	0.03	0.07	0.31
	Eu	0.24	0.38	0.08	0.05	0.44
	Naive L4	0.27	0.71	0.02	0.06	0.27
	Naive Eu	0.45	1.02	0.12	0.12	0.55
Relative Bias	L4	0.54	0.61	0.03	0.82	0.70
	L4*	0.58	0.59	0.04	0.80	0.88
	Eu	0.67	0.54	0.14	0.63	1.37
	Naive L4	0.62	1.09	0.03	0.69	0.68
	Naive Eu	1.15	1.36	0.21	1.28	1.75

Table 4: IQR and coverage of **All countries, population weighted**, 1000 particles, pacc =.03

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.08	0.12	0.04	0.03	0.13
	L4*	0.11	0.19	0.04	0.04	0.15
	Eu	0.17	0.24	0.15	0.05	0.24
	Naive L4	0.08	0.13	0.04	0.03	0.12
	Naive Eu	0.20	0.29	0.19	0.08	0.23
95% Range	L4	0.22	0.34	0.11	0.11	0.34
	L4*	0.29	0.50	0.12	0.12	0.40
	Eu	0.41	0.62	0.36	0.13	0.54
	Naive L4	0.23	0.38	0.13	0.11	0.32
	Naive Eu	0.48	0.73	0.44	0.20	0.53
IQR CR	L4	0.65	0.56	0.66	0.79	0.60
	L4*	0.63	0.58	0.59	0.69	0.65
	Eu	0.59	0.52	0.61	0.68	0.53
	Naive L4	0.59	0.47	0.66	0.76	0.49
	Naive Eu	0.53	0.46	0.55	0.68	0.43
95% CR	L4	0.96	0.92	0.97	0.99	0.95
	L4*	0.97	0.97	0.96	0.99	0.98
	Eu	0.94	0.90	0.95	0.98	0.91
	Naive L4	0.92	0.86	0.97	0.98	0.88
	Naive Eu	0.89	0.84	0.95	0.98	0.80

Table 5: Mean accuracy **Country 1**, 1000 particles, **pacc = .03**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.04	0.08	0.02	0.01	0.06
	L4*	0.04	0.08	0.02	0.01	0.05
	Eu	0.09	0.13	0.07	0.02	0.12
	Naive L4	0.06	0.11	0.02	0.01	0.09
	Naive Eu	0.13	0.18	0.09	0.02	0.20
ReAbs Bias	L4	0.36	0.53	0.02	0.68	0.23
	L4*	0.32	0.39	0.02	0.55	0.31
	Eu	0.56	0.38	0.12	0.57	1.16
	Naive L4	0.38	0.85	0.02	0.41	0.23
	Naive Eu	0.86	0.85	0.18	0.90	1.52
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.04	0.08	0.02	0.01	0.06
	L4*	0.04	0.08	0.02	0.01	0.06
	Eu	0.09	0.13	0.07	0.02	0.13
	Naive L4	0.06	0.11	0.02	0.01	0.09
	Naive Eu	0.13	0.19	0.09	0.03	0.21
Relative Bias	L4	0.41	0.52	0.02	0.83	0.28
	L4*	0.41	0.44	0.03	0.70	0.48
	Eu	0.60	0.41	0.12	0.65	1.23
	Naive L4	0.42	0.84	0.02	0.55	0.26
	Naive Eu	0.90	0.85	0.18	1.05	1.52

Table 6: IQR and coverage of **Country 1**, 1000 particles, pacc =.03

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.06	0.09	0.03	0.03	0.10
	L4*	0.08	0.16	0.03	0.03	0.12
	Eu	0.15	0.22	0.14	0.04	0.21
	Naive L4	0.05	0.09	0.02	0.02	0.09
	Naive Eu	0.17	0.25	0.17	0.06	0.19
95% Range	L4	0.17	0.27	0.08	0.08	0.27
	L4*	0.23	0.41	0.09	0.09	0.33
	Eu	0.38	0.57	0.34	0.12	0.50
	Naive L4	0.16	0.26	0.08	0.06	0.23
	Naive Eu	0.41	0.64	0.40	0.15	0.45
IQR CR	L4	0.64	0.56	0.60	0.78	0.61
	L4*	0.61	0.58	0.54	0.67	0.67
	Eu	0.60	0.55	0.62	0.68	0.55
	Naive L4	0.57	0.45	0.60	0.72	0.49
	Naive Eu	0.53	0.47	0.55	0.67	0.43
95% CR	L4	0.95	0.90	0.96	0.99	0.94
	L4*	0.97	0.98	0.95	0.99	0.98
	Eu	0.93	0.90	0.95	0.98	0.91
	Naive L4	0.91	0.83	0.96	0.97	0.86
	Naive Eu	0.88	0.84	0.95	0.98	0.77

Table 7: Mean accuracy **Country 2**, 1000 particles, **pacc = .03**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.06	0.09	0.02	0.02	0.09
	L4*	0.07	0.13	0.03	0.02	0.10
	Eu	0.11	0.18	0.09	0.03	0.15
	Naive L4	0.08	0.15	0.03	0.02	0.12
	Naive Eu	0.16	0.26	0.12	0.04	0.22
ReAbs Bias	L4	0.83	0.92	0.04	0.63	1.72
	L4*	0.84	1.06	0.05	0.87	1.36
	Eu	0.86	0.94	0.16	0.46	1.87
	Naive L4	1.09	2.11	0.04	0.81	1.41
	Naive Eu	1.79	3.17	0.26	1.54	2.20
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.06	0.10	0.03	0.02	0.09
	L4*	0.08	0.14	0.03	0.03	0.11
	Eu	0.12	0.18	0.09	0.03	0.16
	Naive L4	0.08	0.15	0.03	0.02	0.12
	Naive Eu	0.16	0.26	0.12	0.05	0.22
Relative Bias	L4	0.94	1.01	0.05	0.81	1.91
	L4*	1.10	1.16	0.06	1.14	2.05
	Eu	0.96	1.02	0.16	0.54	2.12
	Naive L4	1.29	2.13	0.05	1.10	1.89
	Naive Eu	2.04	3.13	0.25	1.91	2.87

Table 8: IQR and coverage of **Country 2**, 1000 particles, pacc =.03

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.11	0.16	0.05	0.05	0.18
	L4*	0.15	0.25	0.06	0.06	0.21
	Eu	0.20	0.29	0.16	0.06	0.29
	Naive L4	0.13	0.19	0.08	0.06	0.18
	Naive Eu	0.25	0.35	0.23	0.12	0.30
95% Range	L4	0.31	0.46	0.16	0.16	0.46
	L4*	0.39	0.66	0.18	0.19	0.53
	Eu	0.48	0.71	0.40	0.16	0.63
	Naive L4	0.37	0.58	0.22	0.20	0.46
	Naive Eu	0.60	0.89	0.52	0.29	0.67
IQR CR	L4	0.68	0.56	0.77	0.83	0.58
	L4*	0.66	0.58	0.71	0.76	0.61
	Eu	0.56	0.46	0.58	0.68	0.50
	Naive L4	0.64	0.50	0.78	0.82	0.46
	Naive Eu	0.52	0.41	0.56	0.74	0.40
95% CR	L4	0.97	0.95	0.99	0.99	0.96
	L4*	0.98	0.95	0.99	0.99	0.98
	Eu	0.94	0.89	0.95	0.99	0.94
	Naive L4	0.94	0.92	0.98	0.98	0.91
	Naive Eu	0.91	0.85	0.96	0.98	0.84



Table 9: Mean accuracy **Country 3**, 1000 particles, **pacc = .03**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.06	0.10	0.03	0.02	0.11
	L4*	0.08	0.14	0.03	0.02	0.12
	Eu	0.11	0.18	0.09	0.03	0.16
	Naive L4	0.08	0.14	0.03	0.02	0.13
	Naive Eu	0.16	0.28	0.12	0.05	0.20
ReAbs Bias	L4	0.51	0.44	0.04	0.59	0.97
	L4*	0.51	0.49	0.05	0.59	0.90
	Eu	0.50	0.41	0.16	0.56	0.87
	Naive L4	0.57	0.79	0.05	0.62	0.82
	Naive Eu	0.94	1.26	0.29	1.20	1.01
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.06	0.10	0.03	0.02	0.11
	L4*	0.08	0.14	0.04	0.03	0.12
	Eu	0.12	0.18	0.09	0.03	0.17
	Naive L4	0.08	0.14	0.03	0.02	0.13
	Naive Eu	0.17	0.28	0.13	0.05	0.21
Relative Bias	L4	0.56	0.45	0.05	0.77	0.97
	L4*	0.62	0.52	0.06	0.79	1.12
	Eu	0.55	0.43	0.16	0.64	0.98
	Naive L4	0.64	0.79	0.05	0.79	0.91
	Naive Eu	1.08	1.26	0.28	1.49	1.27

Table 10: IQR and coverage of **Country 3**, 1000 particles, pacc =.03

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.13	0.18	0.06	0.05	0.21
	L4*	0.16	0.26	0.07	0.06	0.24
	Eu	0.20	0.29	0.18	0.06	0.29
	Naive L4	0.14	0.22	0.08	0.06	0.20
	Naive Eu	0.27	0.37	0.24	0.12	0.33
95% Range	L4	0.34	0.52	0.17	0.16	0.51
	L4*	0.41	0.70	0.18	0.18	0.57
	Eu	0.49	0.73	0.42	0.17	0.64
	Naive L4	0.41	0.67	0.24	0.21	0.52
	Naive Eu	0.64	0.97	0.54	0.31	0.73
IQR CR	L4	0.68	0.58	0.75	0.82	0.57
	L4*	0.64	0.57	0.66	0.72	0.61
	Eu	0.58	0.51	0.60	0.70	0.50
	Naive L4	0.66	0.52	0.77	0.85	0.51
	Naive Eu	0.54	0.44	0.54	0.68	0.49
95% CR	L4	0.97	0.96	0.98	1.00	0.96
	L4*	0.98	0.98	0.98	1.00	0.97
	Eu	0.94	0.90	0.95	0.97	0.92
	Naive L4	0.96	0.94	0.98	1.00	0.93
	Naive Eu	0.92	0.84	0.94	0.97	0.92

We now consider the case where our approach shows its superior advantage with 1 country high number of cases

Table 11: Mean accuracy **All countries, equal weighted**, 1000 particles, **pacc =.01**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.22	0.41	0.03	0.09	0.35
	L4*	0.23	0.45	0.03	0.08	0.38
	Eu	0.30	0.28	0.07	0.04	0.84
	Naive L4	0.30	0.74	0.03	0.10	0.33
	Naive Eu	0.56	1.02	0.16	0.09	0.99
ReAbs Bias	L4	0.56	0.63	0.05	0.74	0.83
	L4*	0.59	0.66	0.05	0.72	0.94
	Eu	0.74	0.40	0.10	0.27	2.20
	Naive L4	0.73	1.23	0.05	0.85	0.79
	Naive Eu	1.34	1.67	0.24	0.86	2.58
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.24	0.43	0.03	0.11	0.40
	L4*	0.31	0.48	0.03	0.10	0.62
	Eu	0.33	0.31	0.07	0.04	0.89
	Naive L4	0.32	0.75	0.04	0.13	0.38
	Naive Eu	0.58	1.02	0.16	0.10	1.03
Relative Bias	L4	0.65	0.66	0.05	0.93	0.97
	L4*	0.82	0.72	0.05	0.89	1.60
	Eu	0.82	0.46	0.10	0.32	2.38
	Naive L4	0.84	1.25	0.05	1.13	0.93
	Naive Eu	1.42	1.67	0.24	1.05	2.71

Table 12: IQR and coverage of **All countries, equal weighted**, 1000 particles, pacc =.01

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.12	0.16	0.05	0.05	0.20
	L4*	0.14	0.24	0.06	0.05	0.20
	Eu	0.15	0.20	0.14	0.04	0.21
	Naive L4	0.13	0.21	0.08	0.07	0.18
	Naive Eu	0.19	0.28	0.23	0.09	0.17
95% Range	L4	0.30	0.44	0.15	0.15	0.48
	L4*	0.37	0.64	0.16	0.15	0.52
	Eu	0.36	0.51	0.34	0.12	0.50
	Naive L4	0.38	0.62	0.24	0.21	0.46
	Naive Eu	0.46	0.70	0.51	0.22	0.42
IQR CR	L4	0.62	0.55	0.58	0.72	0.61
	L4*	0.59	0.56	0.58	0.63	0.62
	Eu	0.61	0.55	0.66	0.68	0.55
	Naive L4	0.60	0.46	0.67	0.77	0.49
	Naive Eu	0.51	0.42	0.55	0.69	0.35
95% CR	L4	0.96	0.95	0.97	0.98	0.96
	L4*	0.97	0.97	0.96	0.98	0.97
	Eu	0.95	0.90	0.97	0.98	0.93
	Naive L4	0.94	0.91	0.98	0.99	0.90
	Naive Eu	0.84	0.78	0.95	0.98	0.66

Table 13: Mean accuracy **All countries, population weighted**, 1000 particles, **pacc = .01**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.16	0.30	0.02	0.05	0.27
	L4*	0.18	0.34	0.02	0.04	0.30
	Eu	0.27	0.21	0.05	0.02	0.79
	Naive L4	0.25	0.71	0.02	0.04	0.21
	Naive Eu	0.44	0.77	0.09	0.05	0.84
ReAbs Bias	L4	0.45	0.34	0.02	0.39	1.05
	L4*	0.52	0.38	0.03	0.40	1.29
	Eu	1.11	0.24	0.07	0.19	3.96
	Naive L4	0.50	0.67	0.03	0.42	0.88
	Naive Eu	1.39	0.93	0.14	0.47	4.01
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.17	0.32	0.02	0.06	0.30
	L4*	0.24	0.36	0.02	0.06	0.54
	Eu	0.29	0.24	0.05	0.03	0.83
	Naive L4	0.22	0.55	0.02	0.07	0.27
	Naive Eu	0.45	0.77	0.09	0.06	0.87
Relative Bias	L4	0.52	0.36	0.03	0.51	1.18
	L4*	0.84	0.41	0.03	0.51	2.40
	Eu	1.20	0.27	0.07	0.22	4.25
	Naive L4	0.58	0.68	0.03	0.55	1.05
	Naive Eu	1.46	0.93	0.14	0.57	4.19

Table 14: IQR and coverage of **All countries, population weighted**, 1000 particles, pacc = .01

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.07	0.10	0.03	0.03	0.12
	L4*	0.09	0.17	0.03	0.03	0.13
	Eu	0.12	0.17	0.10	0.03	0.17
	Naive L4	0.08	0.12	0.04	0.03	0.10
	Naive Eu	0.14	0.21	0.14	0.05	0.14
95% Range	L4	0.18	0.29	0.08	0.08	0.29
	L4*	0.25	0.45	0.10	0.09	0.34
	Eu	0.29	0.44	0.24	0.09	0.40
	Naive L4	0.22	0.37	0.13	0.11	0.28
	Naive Eu	0.34	0.54	0.33	0.14	0.36
IQR CR	L4	0.66	0.62	0.61	0.76	0.64
	L4*	0.63	0.60	0.58	0.66	0.65
	Eu	0.68	0.62	0.71	0.74	0.65
	Naive L4	0.64	0.55	0.65	0.77	0.58
	Naive Eu	0.62	0.54	0.65	0.75	0.52
95% CR	L4	0.98	0.97	0.97	0.99	0.97
	L4*	0.98	0.98	0.96	0.98	0.98
	Eu	0.97	0.94	0.98	0.99	0.95
	Naive L4	0.96	0.93	0.97	0.98	0.93
	Naive Eu	0.91	0.88	0.97	0.99	0.81

Table 15: Mean accuracy **Country 1**, 1000 particles, **pacc = .01**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.01	0.02	0.00	0.00	0.01
	L4*	0.02	0.06	0.00	0.00	0.02
	Eu	0.04	0.07	0.02	0.01	0.05
	Naive L4	0.01	0.03	0.00	0.00	0.01
	Naive Eu	0.04	0.07	0.02	0.01	0.05
ReAbs Bias	L4	0.35	0.02	0.00	0.09	1.28
	L4*	0.45	0.06	0.00	0.10	1.65
	Eu	1.48	0.06	0.04	0.11	5.71
	Naive L4	0.26	0.02	0.00	0.04	1.00
	Naive Eu	1.41	0.06	0.04	0.10	5.44
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.01	0.03	0.00	0.00	0.02
	L4*	0.03	0.06	0.00	0.00	0.03
	Eu	0.04	0.07	0.02	0.01	0.06
	Naive L4	0.01	0.03	0.00	0.00	0.02
	Naive Eu	0.04	0.07	0.02	0.01	0.06
Relative Bias	L4	0.40	0.02	0.00	0.15	1.42
	L4*	0.86	0.06	0.01	0.15	3.23
	Eu	1.58	0.06	0.03	0.12	6.12
	Naive L4	0.32	0.02	0.00	0.04	1.20
	Naive Eu	1.47	0.06	0.03	0.12	5.67

Table 16: IQR and coverage of **Country 1**, 1000 particles, pacc =.01

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.02	0.05	0.01	0.00	0.04
	L4*	0.04	0.10	0.01	0.01	0.06
	Eu	0.09	0.15	0.06	0.02	0.13
	Naive L4	0.02	0.04	0.01	0.00	0.04
	Naive Eu	0.08	0.14	0.06	0.02	0.12
95% Range	L4	0.07	0.14	0.02	0.01	0.10
	L4*	0.13	0.27	0.04	0.03	0.17
	Eu	0.22	0.38	0.15	0.05	0.31
	Naive L4	0.06	0.13	0.02	0.01	0.10
	Naive Eu	0.22	0.37	0.14	0.05	0.30
IQR CR	L4	0.69	0.68	0.64	0.80	0.66
	L4*	0.66	0.65	0.59	0.70	0.69
	Eu	0.74	0.70	0.75	0.79	0.74
	Naive L4	0.68	0.65	0.62	0.77	0.67
	Naive Eu	0.73	0.66	0.75	0.81	0.69
95% CR	L4	0.99	0.99	0.98	1.00	0.98
	L4*	0.98	0.99	0.97	0.99	0.99
	Eu	0.99	0.98	0.99	1.00	0.98
	Naive L4	0.97	0.96	0.97	0.98	0.97
	Naive Eu	0.99	0.98	1.00	1.00	0.97



Table 17: Mean accuracy **Country 2**, 1000 particles, **pacc = .01**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.08	0.13	0.04	0.03	0.14
	L4*	0.10	0.17	0.04	0.03	0.13
	Eu	0.10	0.14	0.08	0.03	0.15
	Naive L4	0.13	0.24	0.05	0.03	0.19
	Naive Eu	0.24	0.35	0.18	0.05	0.39
ReAbs Bias	L4	0.59	1.16	0.06	0.69	0.46
	L4*	0.65	1.19	0.07	0.93	0.43
	Eu	0.40	0.68	0.14	0.32	0.45
	Naive L4	1.00	2.53	0.07	0.88	0.50
	Naive Eu	1.53	3.51	0.33	1.11	1.18
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.09	0.13	0.04	0.03	0.14
	L4*	0.10	0.18	0.05	0.04	0.14
	Eu	0.10	0.14	0.09	0.03	0.15
	Naive L4	0.13	0.23	0.06	0.04	0.18
	Naive Eu	0.24	0.35	0.18	0.05	0.38
Relative Bias	L4	0.67	1.22	0.07	0.86	0.54
	L4*	0.77	1.30	0.07	1.15	0.57
	Eu	0.46	0.81	0.14	0.37	0.50
	Naive L4	1.10	2.57	0.08	1.19	0.55
	Naive Eu	1.58	3.51	0.32	1.31	1.17

Table 18: IQR and coverage of **Country 2**, 1000 particles, pacc =.01

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.15	0.21	0.08	0.07	0.27
	L4*	0.18	0.31	0.08	0.07	0.27
	Eu	0.18	0.22	0.18	0.05	0.25
	Naive L4	0.18	0.28	0.12	0.10	0.23
	Naive Eu	0.25	0.35	0.33	0.12	0.20
95% Range	L4	0.41	0.57	0.21	0.21	0.64
	L4*	0.48	0.81	0.22	0.21	0.68
	Eu	0.43	0.56	0.43	0.15	0.59
	Naive L4	0.53	0.84	0.37	0.32	0.61
	Naive Eu	0.59	0.87	0.71	0.31	0.48
IQR CR	L4	0.58	0.47	0.57	0.67	0.60
	L4*	0.55	0.47	0.57	0.58	0.59
	Eu	0.54	0.46	0.62	0.63	0.44
	Naive L4	0.56	0.35	0.72	0.76	0.39
	Naive Eu	0.39	0.29	0.45	0.65	0.17
95% CR	L4	0.95	0.92	0.95	0.99	0.95
	L4*	0.95	0.94	0.95	0.98	0.95
	Eu	0.91	0.86	0.95	0.97	0.88
	Naive L4	0.92	0.84	0.98	0.99	0.86
	Naive Eu	0.75	0.63	0.93	0.97	0.48

Table 19: Mean accuracy **Country 3**, 1000 particles, **pacc = .01**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.09	0.13	0.04	0.03	0.15
	L4*	0.10	0.17	0.05	0.03	0.14
	Eu	0.10	0.15	0.08	0.03	0.14
	Naive L4	0.12	0.22	0.05	0.03	0.19
	Naive Eu	0.23	0.32	0.18	0.05	0.38
ReAbs Bias	L4	0.74	0.71	0.07	1.43	0.75
	L4*	0.67	0.74	0.07	1.12	0.76
	Eu	0.35	0.45	0.13	0.39	0.44
	Naive L4	0.92	1.13	0.07	1.62	0.86
	Naive Eu	1.08	1.46	0.37	1.37	1.13
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.09	0.13	0.04	0.04	0.15
	L4*	0.10	0.17	0.05	0.04	0.15
	Eu	0.10	0.15	0.08	0.03	0.14
	Naive L4	0.12	0.22	0.05	0.04	0.19
	Naive Eu	0.23	0.31	0.18	0.05	0.37
Relative Bias	L4	0.89	0.73	0.07	1.77	0.97
	L4*	0.82	0.79	0.07	1.38	1.02
	Eu	0.40	0.50	0.13	0.46	0.53
	Naive L4	1.10	1.14	0.08	2.15	1.05
	Naive Eu	1.21	1.45	0.37	1.73	1.29

Table 20: IQR and coverage of **Country 3**, 1000 particles, pacc =.01

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.17	0.22	0.08	0.08	0.29
	L4*	0.19	0.31	0.08	0.07	0.29
	Eu	0.18	0.23	0.19	0.05	0.25
	Naive L4	0.19	0.30	0.12	0.10	0.26
	Naive Eu	0.25	0.35	0.31	0.12	0.20
95% Range	L4	0.44	0.62	0.22	0.23	0.69
	L4*	0.49	0.84	0.22	0.21	0.71
	Eu	0.44	0.58	0.43	0.15	0.59
	Naive L4	0.55	0.90	0.35	0.30	0.67
	Naive Eu	0.59	0.87	0.68	0.30	0.49
IQR CR	L4	0.58	0.51	0.54	0.71	0.56
	L4*	0.57	0.54	0.56	0.59	0.59
	Eu	0.55	0.49	0.63	0.60	0.47
	Naive L4	0.56	0.39	0.68	0.78	0.40
	Naive Eu	0.40	0.32	0.45	0.62	0.20
95% CR	L4	0.95	0.94	0.97	0.96	0.95
	L4*	0.96	0.96	0.96	0.97	0.96
	Eu	0.94	0.86	0.98	0.98	0.93
	Naive L4	0.94	0.92	0.99	0.98	0.87
	Naive Eu	0.79	0.72	0.92	0.97	0.54

Table 21: Mean accuracy **All countries, equal weighted**, 1000 particles, **pacc =.01**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.21	0.50	0.02	0.05	0.25
	L4*	0.20	0.50	0.02	0.05	0.22
	Eu	0.24	0.45	0.07	0.03	0.40
	Naive L4	0.33	0.99	0.03	0.05	0.26
	Naive Eu	0.50	1.33	0.11	0.06	0.49
ReAbs Bias	L4	0.49	0.63	0.03	0.54	0.77
	L4*	0.45	0.62	0.04	0.53	0.62
	Eu	0.50	0.53	0.11	0.28	1.09
	Naive L4	0.64	1.25	0.04	0.51	0.78
	Naive Eu	0.93	1.61	0.18	0.59	1.33
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.22	0.52	0.02	0.07	0.26
	L4*	0.24	0.53	0.03	0.07	0.32
	Eu	0.25	0.47	0.07	0.03	0.42
	Naive L4	0.35	0.99	0.03	0.07	0.31
	Naive Eu	0.51	1.33	0.11	0.07	0.54
Relative Bias	L4	0.55	0.66	0.04	0.71	0.81
	L4*	0.58	0.66	0.04	0.67	0.95
	Eu	0.54	0.57	0.11	0.32	1.17
	Naive L4	0.73	1.25	0.04	0.68	0.96
	Naive Eu	1.01	1.61	0.18	0.71	1.53

Table 22: IQR and coverage of **All countries, equal weighted**, 1000 particles, pacc =.01

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.09	0.14	0.04	0.04	0.15
	L4*	0.11	0.19	0.05	0.04	0.16
	Eu	0.15	0.22	0.13	0.04	0.21
	Naive L4	0.10	0.16	0.05	0.04	0.14
	Naive Eu	0.17	0.26	0.18	0.06	0.18
95% Range	L4	0.25	0.38	0.12	0.11	0.38
	L4*	0.29	0.52	0.13	0.12	0.42
	Eu	0.36	0.54	0.31	0.11	0.49
	Naive L4	0.28	0.47	0.16	0.13	0.37
	Naive Eu	0.41	0.65	0.41	0.16	0.43
IQR CR	L4	0.63	0.54	0.65	0.76	0.57
	L4*	0.61	0.57	0.60	0.66	0.62
	Eu	0.61	0.54	0.65	0.71	0.54
	Naive L4	0.59	0.47	0.67	0.75	0.46
	Naive Eu	0.53	0.46	0.58	0.69	0.38
95% CR	L4	0.96	0.92	0.97	0.99	0.95
	L4*	0.97	0.96	0.96	0.99	0.97
	Eu	0.94	0.89	0.96	0.98	0.91
	Naive L4	0.93	0.88	0.97	0.98	0.88
	Naive Eu	0.87	0.82	0.96	0.98	0.71

Table 23: Mean accuracy **All countries, population weighted**, 1000 particles, **pacc = .01**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.16	0.37	0.02	0.04	0.19
	L4*	0.14	0.35	0.02	0.04	0.16
	Eu	0.19	0.34	0.06	0.03	0.35
	Naive L4	0.25	0.71	0.02	0.04	0.21
	Naive Eu	0.38	0.94	0.10	0.05	0.44
ReAbs Bias	L4	0.41	0.58	0.03	0.56	0.48
	L4*	0.35	0.50	0.03	0.46	0.39
	Eu	0.51	0.46	0.10	0.30	1.19
	Naive L4	0.52	1.09	0.03	0.44	0.51
	Naive Eu	0.86	1.28	0.16	0.64	1.37
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.16	0.38	0.02	0.05	0.20
	L4*	0.17	0.38	0.02	0.05	0.24
	Eu	0.20	0.35	0.06	0.03	0.37
	Naive L4	0.26	0.71	0.02	0.05	0.25
	Naive Eu	0.39	0.94	0.10	0.06	0.47
Relative Bias	L4	0.46	0.59	0.03	0.70	0.52
	L4*	0.44	0.54	0.03	0.57	0.62
	Eu	0.54	0.48	0.10	0.35	1.22
	Naive L4	0.58	1.09	0.03	0.58	0.62
	Naive Eu	0.91	1.28	0.16	0.76	1.44

Table 24: IQR and coverage of **All countries, population weighted**, 1000 particles, pacc =.01

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.07	0.11	0.03	0.03	0.12
	L4*	0.09	0.16	0.04	0.03	0.13
	Eu	0.13	0.19	0.12	0.03	0.18
	Naive L4	0.07	0.12	0.04	0.03	0.11
	Naive Eu	0.15	0.23	0.16	0.05	0.15
95% Range	L4	0.20	0.31	0.09	0.09	0.31
	L4*	0.24	0.43	0.10	0.09	0.34
	Eu	0.32	0.49	0.28	0.09	0.43
	Naive L4	0.21	0.35	0.11	0.09	0.29
	Naive Eu	0.36	0.57	0.36	0.13	0.38
IQR CR	L4	0.61	0.54	0.60	0.73	0.59
	L4*	0.60	0.58	0.56	0.63	0.63
	Eu	0.61	0.55	0.64	0.70	0.55
	Naive L4	0.56	0.45	0.61	0.69	0.48
	Naive Eu	0.53	0.47	0.57	0.66	0.40
95% CR	L4	0.95	0.91	0.96	0.99	0.94
	L4*	0.97	0.97	0.95	0.99	0.97
	Eu	0.93	0.89	0.95	0.98	0.90
	Naive L4	0.90	0.84	0.96	0.97	0.86
	Naive Eu	0.86	0.81	0.95	0.97	0.70



Table 25: Mean accuracy **Country 1**, 1000 particles, **pacc = .01**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.04	0.07	0.02	0.01	0.05
	L4*	0.03	0.07	0.02	0.01	0.05
	Eu	0.07	0.11	0.05	0.01	0.11
	Naive L4	0.06	0.11	0.02	0.01	0.09
	Naive Eu	0.11	0.16	0.07	0.02	0.20
ReAbs Bias	L4	0.36	0.53	0.02	0.68	0.23
	L4*	0.32	0.39	0.02	0.55	0.31
	Eu	0.56	0.38	0.12	0.57	1.16
	Naive L4	0.38	0.85	0.02	0.41	0.23
	Naive Eu	0.86	0.85	0.18	0.90	1.52
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.04	0.07	0.02	0.01	0.05
	L4*	0.04	0.07	0.02	0.01	0.05
	Eu	0.07	0.11	0.06	0.01	0.11
	Naive L4	0.06	0.11	0.02	0.01	0.09
	Naive Eu	0.11	0.16	0.08	0.02	0.20
Relative Bias	L4	0.35	0.49	0.02	0.68	0.19
	L4*	0.27	0.38	0.02	0.46	0.23
	Eu	0.51	0.36	0.09	0.39	1.20
	Naive L4	0.38	0.84	0.02	0.47	0.21
	Naive Eu	0.76	0.83	0.15	0.82	1.25

Table 26: IQR and coverage of **Country 1**, 1000 particles, pacc =.01

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.06	0.09	0.02	0.02	0.09
	L4*	0.07	0.13	0.03	0.02	0.09
	Eu	0.11	0.17	0.11	0.03	0.15
	Naive L4	0.05	0.08	0.02	0.02	0.08
	Naive Eu	0.12	0.19	0.13	0.04	0.13
95% Range	L4	0.16	0.24	0.07	0.06	0.24
	L4*	0.19	0.35	0.08	0.06	0.27
	Eu	0.29	0.43	0.26	0.08	0.38
	Naive L4	0.14	0.23	0.07	0.05	0.21
	Naive Eu	0.31	0.50	0.32	0.10	0.33
IQR CR	L4	0.59	0.53	0.54	0.71	0.60
	L4*	0.59	0.59	0.52	0.60	0.65
	Eu	0.61	0.56	0.63	0.69	0.56
	Naive L4	0.53	0.44	0.55	0.64	0.50
	Naive Eu	0.53	0.48	0.57	0.63	0.42
95% CR	L4	0.94	0.89	0.95	0.98	0.93
	L4*	0.97	0.98	0.94	0.99	0.97
	Eu	0.92	0.88	0.95	0.97	0.88
	Naive L4	0.89	0.80	0.94	0.96	0.84
	Naive Eu	0.85	0.80	0.94	0.97	0.70

Table 27: Mean accuracy **Country 2**, 1000 particles, **pacc = .01**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.06	0.09	0.02	0.02	0.09
	L4*	0.06	0.12	0.02	0.02	0.09
	Eu	0.09	0.15	0.07	0.02	0.13
	Naive L4	0.08	0.14	0.03	0.02	0.12
	Naive Eu	0.15	0.23	0.10	0.03	0.24
ReAbs Bias	L4	0.69	0.95	0.04	0.54	1.24
	L4*	0.69	1.03	0.04	0.70	1.00
	Eu	0.66	0.88	0.11	0.22	1.43
	Naive L4	1.06	2.13	0.04	0.68	1.40
	Naive Eu	1.40	2.95	0.19	0.54	1.91
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.06	0.09	0.02	0.02	0.09
	L4*	0.07	0.12	0.03	0.02	0.09
	Eu	0.10	0.15	0.07	0.02	0.14
	Naive L4	0.08	0.14	0.03	0.02	0.12
	Naive Eu	0.15	0.23	0.10	0.03	0.24
Relative Bias	L4	0.80	1.02	0.04	0.72	1.40
	L4*	0.92	1.09	0.05	0.86	1.68
	Eu	0.74	0.96	0.11	0.25	1.64
	Naive L4	1.23	2.12	0.05	0.91	1.85
	Naive Eu	1.54	2.93	0.19	0.65	2.40

Table 28: IQR and coverage of **Country 2**, 1000 particles, pacc =.01

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.10	0.15	0.05	0.05	0.17
	L4*	0.12	0.21	0.05	0.05	0.18
	Eu	0.16	0.24	0.13	0.04	0.24
	Naive L4	0.12	0.18	0.07	0.05	0.16
	Naive Eu	0.19	0.29	0.20	0.07	0.20
95% Range	L4	0.28	0.42	0.14	0.14	0.42
	L4*	0.33	0.57	0.15	0.14	0.47
	Eu	0.39	0.58	0.32	0.12	0.53
	Naive L4	0.33	0.55	0.20	0.17	0.42
	Naive Eu	0.45	0.70	0.44	0.18	0.46
IQR CR	L4	0.65	0.52	0.72	0.78	0.57
	L4*	0.63	0.57	0.66	0.71	0.60
	Eu	0.61	0.53	0.65	0.73	0.53
	Naive L4	0.61	0.48	0.75	0.79	0.43
	Naive Eu	0.52	0.44	0.59	0.71	0.34
95% CR	L4	0.97	0.93	0.99	0.99	0.95
	L4*	0.97	0.93	0.98	0.99	0.98
	Eu	0.94	0.89	0.95	0.99	0.93
	Naive L4	0.94	0.91	0.98	0.98	0.88
	Naive Eu	0.87	0.84	0.96	0.99	0.69

Table 29: Mean accuracy **Country 3**, 1000 particles, **pacc = .01**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.06	0.10	0.03	0.02	0.11
	L4*	0.07	0.13	0.03	0.02	0.11
	Eu	0.09	0.15	0.07	0.02	0.14
	Naive L4	0.08	0.14	0.03	0.02	0.13
	Naive Eu	0.15	0.24	0.10	0.03	0.24
ReAbs Bias	L4	0.47	0.44	0.04	0.51	0.90
	L4*	0.44	0.49	0.05	0.51	0.70
	Eu	0.34	0.37	0.12	0.29	0.60
	Naive L4	0.52	0.77	0.05	0.51	0.74
	Naive Eu	0.64	1.07	0.19	0.55	0.76
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.06	0.10	0.03	0.02	0.11
	L4*	0.08	0.13	0.03	0.02	0.11
	Eu	0.10	0.15	0.07	0.02	0.14
	Naive L4	0.08	0.14	0.03	0.02	0.12
	Naive Eu	0.15	0.24	0.11	0.03	0.23
Relative Bias	L4	0.52	0.46	0.05	0.73	0.84
	L4*	0.55	0.51	0.06	0.69	0.93
	Eu	0.38	0.40	0.12	0.33	0.66
	Naive L4	0.58	0.78	0.05	0.66	0.83
	Naive Eu	0.71	1.07	0.19	0.65	0.94

Table 30: IQR and coverage of **Country 3**, 1000 particles, pacc =.01

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.11	0.17	0.05	0.04	0.19
	L4*	0.14	0.23	0.06	0.05	0.21
	Eu	0.17	0.25	0.15	0.04	0.24
	Naive L4	0.13	0.21	0.07	0.05	0.18
	Naive Eu	0.20	0.30	0.21	0.07	0.22
95% Range	L4	0.31	0.47	0.14	0.14	0.47
	L4*	0.36	0.63	0.16	0.15	0.52
	Eu	0.41	0.61	0.35	0.12	0.54
	Naive L4	0.37	0.62	0.21	0.18	0.47
	Naive Eu	0.47	0.74	0.46	0.19	0.49
IQR CR	L4	0.65	0.57	0.68	0.80	0.55
	L4*	0.62	0.57	0.62	0.67	0.61
	Eu	0.61	0.53	0.66	0.73	0.53
	Naive L4	0.62	0.49	0.72	0.82	0.45
	Naive Eu	0.54	0.47	0.57	0.73	0.38
95% CR	L4	0.97	0.95	0.98	0.99	0.96
	L4*	0.97	0.97	0.97	0.99	0.96
	Eu	0.94	0.91	0.97	0.98	0.92
	Naive L4	0.95	0.92	0.98	1.00	0.91
	Naive Eu	0.87	0.82	0.96	0.98	0.74

Table 31: Mean accuracy **All countries, equal weighted**, 1000 particles, **pacc =.03**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.24	0.41	0.03	0.09	0.41
	L4*	0.29	0.48	0.03	0.18	0.46
	Eu	0.40	0.31	0.09	0.05	1.14
	Naive L4	0.31	0.75	0.03	0.10	0.37
	Naive Eu	0.63	1.11	0.18	0.14	1.09
ReAbs Bias	L4	0.62	0.63	0.05	0.82	1.00
	L4*	0.78	0.72	0.05	1.18	1.19
	Eu	0.99	0.45	0.14	0.43	2.95
	Naive L4	0.79	1.26	0.05	0.94	0.90
	Naive Eu	1.60	1.80	0.28	1.33	2.97
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.27	0.42	0.03	0.12	0.49
	L4*	0.39	0.51	0.04	0.31	0.70
	Eu	0.44	0.35	0.09	0.06	1.27
	Naive L4	0.34	0.77	0.04	0.13	0.42
	Naive Eu	0.66	1.12	0.18	0.17	1.18
Relative Bias	L4	0.74	0.65	0.05	1.03	1.21
	L4*	1.13	0.78	0.06	1.84	1.84
	Eu	1.11	0.52	0.14	0.50	3.29
	Naive L4	0.91	1.28	0.05	1.25	1.06
	Naive Eu	1.75	1.79	0.28	1.68	3.23

Table 32: IQR and coverage of **All countries, equal weighted**, 1000 particles,  $pacc = .03$

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.12	0.17	0.06	0.06	0.21
	L4*	0.16	0.27	0.06	0.06	0.23
	Eu	0.18	0.24	0.17	0.06	0.25
	Naive L4	0.14	0.22	0.09	0.07	0.19
	Naive Eu	0.27	0.35	0.27	0.14	0.31
95% Range	L4	0.33	0.48	0.16	0.17	0.50
	L4*	0.41	0.71	0.18	0.18	0.57
	Eu	0.44	0.61	0.41	0.16	0.58
	Naive L4	0.42	0.68	0.26	0.24	0.50
	Naive Eu	0.65	0.93	0.60	0.36	0.69
IQR CR	L4	0.65	0.57	0.65	0.76	0.61
	L4*	0.62	0.56	0.60	0.68	0.63
	Eu	0.59	0.53	0.62	0.68	0.53
	Naive L4	0.63	0.49	0.73	0.82	0.51
	Naive Eu	0.52	0.42	0.54	0.70	0.43
95% CR	L4	0.97	0.96	0.97	0.99	0.96
	L4*	0.97	0.97	0.96	0.98	0.97
	Eu	0.95	0.91	0.97	0.99	0.94
	Naive L4	0.95	0.92	0.99	0.99	0.91
	Naive Eu	0.91	0.82	0.95	0.98	0.87



Table 33: Mean accuracy **All countries, population weighted**, 1000 particles, **pacc = .03**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.17	0.30	0.02	0.05	0.31
	L4*	0.23	0.37	0.02	0.13	0.38
	Eu	0.36	0.25	0.07	0.04	1.08
	Naive L4	0.22	0.55	0.02	0.05	0.25
	Naive Eu	0.50	0.85	0.12	0.08	0.95
ReAbs Bias	L4	0.52	0.34	0.03	0.44	1.27
	L4*	0.81	0.42	0.03	1.14	1.65
	Eu	1.53	0.28	0.10	0.37	5.38
	Naive L4	0.54	0.69	0.03	0.47	0.98
	Naive Eu	1.68	1.02	0.18	0.86	4.69
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.19	0.31	0.02	0.06	0.38
	L4*	0.32	0.40	0.02	0.25	0.61
	Eu	0.40	0.28	0.07	0.04	1.20
	Naive L4	0.24	0.56	0.02	0.07	0.30
	Naive Eu	0.53	0.85	0.12	0.11	1.04
Relative Bias	L4	0.64	0.36	0.03	0.57	1.59
	L4*	1.35	0.45	0.04	2.15	2.75
	Eu	1.70	0.32	0.10	0.43	5.96
	Naive L4	0.64	0.71	0.03	0.62	1.19
	Naive Eu	1.84	1.01	0.17	1.06	5.10

Table 34: IQR and coverage of **All countries, population weighted**, 1000 particles, pacc =.01

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.08	0.11	0.03	0.03	0.13
	L4*	0.11	0.21	0.04	0.04	0.15
	Eu	0.16	0.23	0.13	0.05	0.23
	Naive L4	0.08	0.13	0.05	0.04	0.11
	Naive Eu	0.20	0.29	0.18	0.09	0.25
95% Range	L4	0.21	0.32	0.10	0.10	0.31
	L4*	0.29	0.54	0.12	0.12	0.40
	Eu	0.40	0.60	0.33	0.14	0.54
	Naive L4	0.24	0.40	0.14	0.13	0.30
	Naive Eu	0.50	0.76	0.42	0.24	0.59
IQR CR	L4	0.69	0.63	0.69	0.80	0.64
	L4*	0.65	0.59	0.63	0.73	0.66
	Eu	0.63	0.57	0.65	0.72	0.59
	Naive L4	0.68	0.58	0.72	0.84	0.59
	Naive Eu	0.60	0.51	0.61	0.74	0.53
95% CR	L4	0.98	0.97	0.98	0.99	0.97
	L4*	0.98	0.98	0.97	0.99	0.98
	Eu	0.97	0.95	0.98	0.99	0.96
	Naive L4	0.97	0.94	0.99	0.99	0.94
	Naive Eu	0.94	0.90	0.97	0.99	0.92

Table 35: Mean accuracy **Country 1**, 1000 particles, **pacc = .03**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.01	0.03	0.00	0.00	0.02
	L4*	0.03	0.09	0.01	0.00	0.03
	Eu	0.06	0.11	0.04	0.02	0.09
	Naive L4	0.01	0.03	0.00	0.00	0.02
	Naive Eu	0.06	0.11	0.05	0.02	0.09
ReAbs Bias	L4	0.43	0.03	0.01	0.12	1.57
	L4*	0.84	0.09	0.01	1.13	2.14
	Eu	2.07	0.09	0.07	0.32	7.81
	Naive L4	0.29	0.03	0.00	0.04	1.10
	Naive Eu	1.75	0.10	0.07	0.40	6.41
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.01	0.03	0.00	0.00	0.02
	L4*	0.04	0.09	0.01	0.01	0.04
	Eu	0.07	0.11	0.04	0.02	0.10
	Naive L4	0.01	0.03	0.00	0.00	0.02
	Naive Eu	0.07	0.11	0.05	0.02	0.10
Relative Bias	L4	0.55	0.03	0.01	0.18	1.99
	L4*	1.58	0.09	0.02	2.50	3.69
	Eu	2.29	0.10	0.07	0.36	8.63
	Naive L4	0.36	0.03	0.00	0.05	1.36
	Naive Eu	1.91	0.10	0.07	0.46	6.99

Table 36: IQR and coverage of **Country 1**, 1000 particles, pacc =.03

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.03	0.05	0.01	0.01	0.04
	L4*	0.06	0.14	0.02	0.01	0.08
	Eu	0.14	0.22	0.09	0.04	0.21
	Naive L4	0.02	0.05	0.01	0.00	0.04
	Naive Eu	0.14	0.22	0.09	0.05	0.21
95% Range	L4	0.09	0.17	0.03	0.03	0.12
	L4*	0.18	0.36	0.06	0.05	0.23
	Eu	0.36	0.59	0.25	0.11	0.49
	Naive L4	0.07	0.14	0.02	0.02	0.11
	Naive Eu	0.36	0.59	0.25	0.11	0.49
IQR CR	L4	0.73	0.69	0.73	0.85	0.67
	L4*	0.69	0.64	0.65	0.79	0.68
	Eu	0.68	0.62	0.68	0.77	0.66
	Naive L4	0.73	0.67	0.71	0.86	0.68
	Naive Eu	0.68	0.61	0.67	0.78	0.64
95% CR	L4	0.99	0.99	0.99	1.00	0.97
	L4*	0.99	0.99	0.97	0.99	0.99
	Eu	0.99	0.98	0.99	1.00	0.98
	Naive L4	0.98	0.97	0.99	0.99	0.97
	Naive Eu	0.98	0.98	0.99	0.99	0.98

Table 37: Mean accuracy **Country 2**, 1000 particles, **pacc = .03**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.09	0.13	0.04	0.03	0.14
	L4*	0.10	0.18	0.04	0.03	0.14
	Eu	0.11	0.15	0.10	0.03	0.15
	Naive L4	0.13	0.24	0.05	0.03	0.19
	Naive Eu	0.24	0.36	0.19	0.07	0.33
ReAbs Bias	L4	0.63	1.15	0.07	0.76	0.56
	L4*	0.71	1.30	0.07	0.96	0.51
	Eu	0.47	0.77	0.17	0.44	0.49
	Naive L4	1.08	2.65	0.07	1.06	0.53
	Naive Eu	1.71	3.68	0.35	1.62	1.19
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.09	0.13	0.05	0.03	0.15
	L4*	0.10	0.19	0.05	0.04	0.15
	Eu	0.11	0.15	0.10	0.03	0.15
	Naive L4	0.13	0.24	0.06	0.04	0.18
	Naive Eu	0.24	0.36	0.19	0.08	0.31
Relative Bias	L4	0.71	1.20	0.07	0.96	0.60
	L4*	0.85	1.44	0.07	1.21	0.67
	Eu	0.55	0.92	0.18	0.51	0.60
	Naive L4	1.19	2.69	0.08	1.40	0.60
	Naive Eu	1.82	3.64	0.34	2.08	1.22

Table 38: IQR and coverage of **Country 2**, 1000 particles, pacc =.01

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.17	0.22	0.08	0.08	0.29
	L4*	0.20	0.33	0.09	0.08	0.30
	Eu	0.20	0.24	0.21	0.07	0.27
	Naive L4	0.20	0.30	0.13	0.11	0.25
	Naive Eu	0.32	0.40	0.36	0.19	0.33
95% Range	L4	0.44	0.61	0.23	0.24	0.68
	L4*	0.52	0.87	0.24	0.24	0.72
	Eu	0.48	0.62	0.48	0.18	0.63
	Naive L4	0.58	0.91	0.39	0.36	0.67
	Naive Eu	0.77	1.06	0.78	0.49	0.74
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IQR CR	L4	0.60	0.50	0.62	0.71	0.58
	L4*	0.58	0.46	0.61	0.62	0.62
	Eu	0.54	0.46	0.59	0.64	0.45
	Naive L4	0.58	0.37	0.75	0.78	0.40
	Naive Eu	0.44	0.32	0.48	0.69	0.27
95% CR	L4	0.96	0.93	0.96	0.99	0.95
	L4*	0.96	0.95	0.95	0.99	0.95
	Eu	0.93	0.88	0.96	0.97	0.90
	Naive L4	0.93	0.88	0.98	0.99	0.88
	Naive Eu	0.84	0.71	0.93	0.97	0.74

Table 39: Mean accuracy **Country 3**, 1000 particles, **pacc =.03**

Median Accuracy	Distances	Ave	alpha	beta	delta	gamma
Abs Bias	L4	0.09	0.13	0.04	0.03	0.15
	L4*	0.10	0.18	0.05	0.04	0.15
	Eu	0.11	0.16	0.09	0.03	0.15
	Naive L4	0.12	0.22	0.05	0.03	0.20
	Naive Eu	0.22	0.35	0.19	0.07	0.28
ReAbs Bias	L4	0.81	0.72	0.07	1.58	0.86
	L4*	0.80	0.76	0.07	1.45	0.92
	Eu	0.43	0.48	0.17	0.54	0.53
	Naive L4	0.99	1.10	0.07	1.71	1.09
	Naive Eu	1.33	1.61	0.43	1.97	1.31
Mean Accuracy	Distances	Ave	alpha	beta	delta	gamma
Bias	L4	0.09	0.13	0.05	0.04	0.16
	L4*	0.11	0.18	0.05	0.04	0.16
	Eu	0.11	0.16	0.10	0.03	0.16
	Naive L4	0.13	0.22	0.05	0.04	0.19
	Naive Eu	0.22	0.35	0.19	0.08	0.27
Relative Bias	L4	0.95	0.73	0.07	1.94	1.05
	L4*	0.96	0.81	0.08	1.81	1.15
	Eu	0.50	0.54	0.18	0.62	0.66
	Naive L4	1.18	1.14	0.08	2.29	1.21
	Naive Eu	1.52	1.64	0.43	2.51	1.48

Table 40: IQR and coverage of **Country 3**, 1000 particles, pacc =.01

CI	Distances	Ave	alpha	beta	delta	gamma
IQR Range	L4	0.18	0.24	0.09	0.09	0.31
	L4*	0.21	0.34	0.09	0.08	0.32
	Eu	0.20	0.25	0.21	0.07	0.28
	Naive L4	0.21	0.32	0.13	0.11	0.29
	Naive Eu	0.34	0.42	0.34	0.18	0.39
95% Range	L4	0.47	0.66	0.24	0.25	0.72
	L4*	0.53	0.90	0.24	0.25	0.75
	Eu	0.49	0.64	0.49	0.18	0.64
	Naive L4	0.60	0.98	0.37	0.34	0.71
	Naive Eu	0.81	1.15	0.76	0.48	0.85
IQR CR	L4	0.61	0.53	0.60	0.74	0.58
	L4*	0.58	0.57	0.55	0.62	0.59
	Eu	0.55	0.50	0.60	0.63	0.46
	Naive L4	0.60	0.42	0.72	0.81	0.44
	Naive Eu	0.45	0.33	0.46	0.63	0.38
95% CR	L4	0.96	0.95	0.98	0.97	0.96
	L4*	0.96	0.96	0.96	0.97	0.96
	Eu	0.94	0.86	0.97	0.99	0.92
	Naive L4	0.95	0.93	0.99	0.98	0.89
	Naive Eu	0.89	0.78	0.93	0.98	0.88