

Red: Mean complex DWI
 Black: Estimated magnitude DWI
 Blue: Mean ODF

Table 1: SNR=5, b -value=1500

Fisher-Rao distances to the real ODF ($\times 10^{-2}$)													
Separating angles		45°			60°			75°			90°		
Weights													
(0.3, 0.7)		3.74	4.98	14.90	2.79	3.55	13.51	2.51	2.86	11.64	3.75	3.96	11.36
(0.4, 0.6)		4.22	4.76	15.06	3.24	4.71	13.97	4.21	5.65	11.01	2.86	3.12	10.66
(0.5, 0.5)		5.82	6.87	15.63	2.39	6.19	12.96	3.52	4.43	11.74	3.25	3.61	11.21
Direction deviation													
Separating angles		45°			60°			75°			90°		
Weights													
(0.3, 0.7)		9.51	16.21	17.13	1.92	3.21	2.11	1.70	1.88	1.33	2.61	2.93	3.76
(0.4, 0.6)		2.21	5.97	12.67	1.52	3.60	1.57	1.19	0.54	1.41	1.26	0.93	0.96
(0.5, 0.5)		7.61	7.66	9.43	1.20	1.58	1.36	0.57	0.83	1.26	1.36	2.15	2.24

Table 2: SNR=5, b -value=3000

Fisher-Rao distances to the real ODF ($\times 10^{-2}$)																	
Separating angles		45°				60°				75°				90°			
Weights		(0.3, 0.7)	3.55	4.25	46.20	2.68	4.67	39.27	3.17	1.77	35.99	3.06	7.97	34.90			
		(0.4, 0.6)	5.67	5.08	45.47	2.13	2.16	38.47	2.25	1.92	32.89	1.84	1.56	31.81			
		(0.5, 0.5)	2.51	11.86	45.97	1.99	2.19	37.82	1.63	5.03	31.54	2.07	2.91	31.62			
Direction deviation																	
Separating angles		45°				60°				75°				90°			
Weights		(0.3, 0.7)	12.35	17.14	21.62	1.35	5.34	9.85	1.95	1.41	4.56	0.31	4.60	1.57			
		(0.4, 0.6)	8.18	13.40	15.75	2.47	3.10	7.64	1.57	2.07	4.65	1.02	0.72	1.82			
		(0.5, 0.5)	3.13	25.30	26.29	0.52	1.31	3.30	0.45	2.55	2.39	0.78	0.17	1.76			

Table 3: SNR=10, b -value=1500

Fisher-Rao distances to the real ODF ($\times 10^{-2}$)													
Separating angles		45°			60°			75°			90°		
Weights													
	(0.3, 0.7)	1.93	2.15	5.70	2.45	2.37	5.31	1.74	1.59	5.19	1.78	1.84	4.21
	(0.4, 0.6)	2.03	2.38	5.60	1.17	1.04	5.25	2.01	2.01	4.60	1.36	1.46	4.43
	(0.5, 0.5)	1.90	2.09	5.24	1.23	1.21	4.92	1.53	1.66	4.43	2.96	3.00	4.22
Direction deviation													
Separating angles		45°			60°			75°			90°		
Weights													
	(0.3, 0.7)	0.86	0.71	0.77	0.80	0.69	0.76	1.67	1.86	0.62	1.34	1.29	1.24
	(0.4, 0.6)	2.49	2.67	2.55	0.69	0.45	0.85	1.55	1.64	1.28	1.23	1.46	1.62
	(0.5, 0.5)	0.67	0.83	0.52	1.84	1.69	1.56	0.81	0.94	0.40	1.28	1.17	0.88

Table 4: SNR=10, b -value=3000

Fisher-Rao distances to the real ODF ($\times 10^{-2}$)													
Separating angles		45°			60°			75°			90°		
Weights													
(0.3, 0.7)		1.66	1.86	30.15	1.48	3.54	24.06	1.10	0.60	18.32	0.48	0.22	17.60
(0.4, 0.6)		1.22	2.10	30.20	0.10	1.11	21.84	0.99	1.43	17.44	0.25	0.52	15.79
(0.5, 0.5)		0.54	2.84	29.90	0.58	0.58	22.41	1.42	1.07	17.38	0.41	1.00	14.99
Direction deviation													
Separating angles		45°			60°			75°			90°		
Weights													
(0.3, 0.7)		8.26	8.60	20.09	1.31	5.19	9.20	0.95	0.23	3.18	0.07	0.00	0.86
(0.4, 0.6)		6.49	9.98	19.29	0.86	1.26	4.02	0.65	0.71	2.23	0.00	0.11	0.94
(0.5, 0.5)		4.63	4.74	5.41	0.85	0.98	0.74	0.27	0.14	1.64	0.00	0.49	0.70

Table 5: SNR=25, b -value=1500

Fisher-Rao distances to the real ODF ($\times 10^{-2}$)													
Separating angles		45°			60°			75°			90°		
Weights													
(0.3, 0.7)		0.59	0.60	1.27	0.74	0.75	1.27	0.81	0.81	1.71	0.69	0.71	1.32
(0.4, 0.6)		0.92	0.95	1.49	0.64	0.68	1.40	0.91	0.90	1.78	0.90	0.88	1.41
(0.5, 0.5)		0.96	1.00	1.71	0.95	1.01	1.78	0.55	0.52	1.57	0.85	0.86	1.61
Direction deviation													
Separating angles		45°			60°			75°			90°		
Weights													
(0.3, 0.7)		2.65	2.66	2.65	1.30	1.26	1.02	0.76	0.77	0.74	0.35	0.36	0.33
(0.4, 0.6)		0.73	0.68	0.50	0.57	0.56	0.37	0.95	0.95	0.64	0.24	0.23	0.20
(0.5, 0.5)		0.37	0.42	0.37	0.57	0.57	0.42	0.85	0.83	0.53	0.39	0.43	0.34

Table 6: SNR=25, b -value=3000

Fisher-Rao distances to the real ODF ($\times 10^{-2}$)													
Separating angles		45°			60°			75°			90°		
Weights													
(0.3, 0.7)		0.25	0.39	9.54	0.62	0.32	5.43	0.36	0.51	2.98	0.06	0.01	2.09
(0.4, 0.6)		1.11	1.60	8.70	0.05	0.07	4.51	0.30	0.30	3.02	0.10	0.11	1.64
(0.5, 0.5)		0.58	1.15	9.98	0.26	0.22	4.26	0.23	0.32	2.11	0.08	0.08	1.58
Direction deviation													
Separating angles		45°			60°			75°			90°		
Weights													
(0.3, 0.7)		7.61	7.79	16.47	2.13	1.81	5.30	0.71	0.41	2.11	0.00	0.00	0.28
(0.4, 0.6)		3.36	3.71	9.06	0.89	0.91	2.57	0.36	0.35	1.16	0.00	0.00	0.44
(0.5, 0.5)		4.49	4.33	4.60	0.86	0.86	0.79	0.23	0.23	0.37	0.00	0.00	0.45

Table 7: SNR=50, b -value=1500

Fisher-Rao distances to the real ODF ($\times 10^{-2}$)													
Separating angles		45°			60°			75°			90°		
Weights													
(0.3, 0.7)		0.49	0.49	0.65	0.36	0.36	0.40	0.46	0.46	0.67	0.32	0.32	0.63
(0.4, 0.6)		0.47	0.48	0.62	0.39	0.38	0.45	0.25	0.26	0.66	0.32	0.32	0.67
(0.5, 0.5)		0.35	0.36	0.78	0.34	0.34	0.57	0.36	0.35	0.71	0.33	0.33	0.57
Direction deviation													
Separating angles		45°			60°			75°			90°		
Weights													
(0.3, 0.7)		1.92	1.92	1.90	0.72	0.72	0.68	1.14	1.13	0.92	0.05	0.05	0.07
(0.4, 0.6)		1.46	1.46	1.43	0.79	0.79	0.73	0.99	0.99	0.81	0.20	0.19	0.19
(0.5, 0.5)		0.68	0.70	0.60	0.79	0.78	0.73	0.81	0.80	0.69	0.07	0.08	0.08

Table 8: SNR=50, b -value=3000

Fisher-Rao distances to the real ODF ($\times 10^{-2}$)													
Separating angles		45°			60°			75°			90°		
Weights													
(0.3, 0.7)		0.38	0.40	3.02	0.09	0.07	1.83	0.19	0.19	1.13	0.11	0.11	0.73
(0.4, 0.6)		0.52	0.23	2.24	0.01	0.01	0.88	0.20	0.20	0.88	0.06	0.06	0.41
(0.5, 0.5)		0.96	1.12	1.76	0.23	0.22	0.89	0.12	0.10	0.90	0.40	0.41	0.53
Direction deviation													
Separating angles		45°			60°			75°			90°		
Weights													
(0.3, 0.7)		7.75	7.76	11.65	1.53	1.51	3.32	0.72	0.71	1.24	0.00	0.00	0.35
(0.4, 0.6)		6.20	5.40	7.00	0.86	0.86	1.57	0.23	0.23	0.40	0.00	0.00	0.15
(0.5, 0.5)		4.39	4.38	3.85	0.88	0.89	0.81	0.20	0.20	0.24	0.00	0.00	0.16

Table 9: SNR=100, b -value=1500

Fisher-Rao distances to the real ODF ($\times 10^{-2}$)												
Separating angles		45°			60°			75°			90°	
Weights												
(0.3, 0.7)		0.21	0.21	0.21	0.21	0.21	0.21	0.13	0.13	0.26	0.16	0.21
(0.4, 0.6)		0.16	0.16	0.21	0.21	0.21	0.22	0.21	0.21	0.28	0.18	0.23
(0.5, 0.5)		0.22	0.22	0.29	0.21	0.21	0.22	0.22	0.22	0.19	0.22	0.30
Direction deviation												
Separating angles		45°			60°			75°			90°	
Weights												
(0.3, 0.7)		2.37	2.36	2.37	0.89	0.89	0.89	1.06	1.06	0.98	0.04	0.05
(0.4, 0.6)		1.31	1.31	1.31	0.78	0.78	0.78	1.01	1.01	0.93	0.09	0.10
(0.5, 0.5)		0.61	0.60	0.57	0.79	0.79	0.79	0.90	0.90	0.85	0.07	0.06

Table 10: SNR=100, b -value=3000

Fisher-Rao distances to the real ODF ($\times 10^{-2}$)												
Separating angles		45°			60°			75°			90°	
Weights												
(0.3, 0.7)		0.12	0.14	0.56	0.09	0.08	0.65	0.06	0.06	0.33	0.07	0.15
(0.4, 0.6)		0.10	0.05	0.30	0.02	0.02	0.24	0.08	0.09	0.39	0.00	0.13
(0.5, 0.5)		0.16	0.15	0.18	0.05	0.04	0.15	0.01	0.01	0.23	0.02	0.13
Direction deviation												
Separating angles		45°			60°			75°			90°	
Weights												
(0.3, 0.7)		7.53	7.52	8.39	1.44	1.43	2.20	0.63	0.63	0.81	0.00	0.09
(0.4, 0.6)		5.20	5.42	5.29	0.86	0.86	1.03	0.23	0.23	0.36	0.00	0.07
(0.5, 0.5)		4.59	4.59	4.39	0.99	0.99	1.03	0.23	0.23	0.16	0.00	0.06