

## 1 Nominal correlations.

Measurements		CVW <sub>183</sub> /%	CVW <sub>189</sub> /%	CVW <sub>192</sub> /%	CVW <sub>196</sub> /%	CVW <sub>200</sub> /%	CVW <sub>202</sub> /%	CVW <sub>205</sub> /%	CVW <sub>207</sub> /%	Stat	LCEU	LCEC	LUEU	LUEC
A183	155.70 ± 6.83	25.58	-0.58	-0.36	-0.42	-0.40	-0.50	-0.47	-0.40	6.20	0	0.90	0.93	2.56
D183	158.60 ± 7.37	22.26	0.04	0.29	0.16	0.09	0.09	0.19	0.06	6.90	0	0.85	0.65	2.35
L183	165.30 ± 7.19	23.49	0.30	0.50	0.46	0.56	0.67	0.60	0.57	6.70	0	0.80	1.38	2.05
O183	154.30 ± 6.63	28.68	0.25	-0.42	-0.20	-0.25	-0.27	-0.31	-0.24	6.10	0	1.40	0	2.19
BLUE <sub>183</sub>	157.92 ± 3.58	100.00	0	0	0	0	0	0	0	3.24	0	0.97	0.43	1.09

Measurements		CVW <sub>183</sub> /%	CVW <sub>189</sub> /%	CVW <sub>192</sub> /%	CVW <sub>196</sub> /%	CVW <sub>200</sub> /%	CVW <sub>202</sub> /%	CVW <sub>205</sub> /%	CVW <sub>207</sub> /%	Stat	LCEU	LCEC	LUEU	LUEC
A189	157.10 ± 3.85	-0.86	26.72	1.11	0.98	0.95	0.80	0.80	0.94	3.40	0	0.50	0.89	1.48
D189	158.30 ± 4.30	-1.39	21.33	-0.65	-0.93	-1.07	-1.18	-0.79	-1.06	3.80	0	0.70	0.50	1.81
L189	162.40 ± 4.31	0.16	22.12	-0.69	-0.80	-0.43	-0.18	-0.30	-0.36	3.70	0	0.44	0.76	2.02
O189	163.00 ± 3.85	2.09	29.83	0.23	0.76	0.55	0.56	0.30	0.48	3.40	0	0.65	0	1.68
BLUE <sub>189</sub>	160.00 ± 2.06	0	100.00	0	0	0	0	0	0	1.80	0	0.54	0.31	0.81

Measurements		CVW <sub>183</sub> /%	CVW <sub>189</sub> /%	CVW <sub>192</sub> /%	CVW <sub>196</sub> /%	CVW <sub>200</sub> /%	CVW <sub>202</sub> /%	CVW <sub>205</sub> /%	CVW <sub>207</sub> /%	Stat	LCEU	LCEC	LUEU	LUEC
A192	172.30 ± 9.08	0.47	0.45	27.07	0.77	0.75	0.75	0.73	0.74	8.90	0	0.50	0.89	1.48
D192	169.00 ± 10.24	0.18	0.12	21.25	0.26	0.22	0.22	0.27	0.22	10.00	0	0.70	0.60	2.00
L192	163.90 ± 9.31	0.14	-0.01	25.85	0.09	0.17	0.21	0.21	0.19	9.00	0	0.80	0.84	2.10
O192	166.00 ± 9.75	-0.79	-0.56	25.83	-1.11	-1.14	-1.18	-1.21	-1.14	8.80	0	1.20	0	4.02
BLUE <sub>192</sub>	167.20 ± 4.78	0	0	100.00	0	0	0	0	0	4.59	0	0.73	0.35	1.05

Measurements		CVW <sub>183</sub> /%	CVW <sub>189</sub> /%	CVW <sub>192</sub> /%	CVW <sub>196</sub> /%	CVW <sub>200</sub> /%	CVW <sub>202</sub> /%	CVW <sub>205</sub> /%	CVW <sub>207</sub> /%	Stat	LCEU	LCEC	LUEU	LUEC
A196	170.00 ± 5.69	1.17	1.15	2.03	29.30	1.87	1.86	1.80	1.83	5.40	0	0.50	0.89	1.48
D196	178.60 ± 6.30	0.43	0.28	0.80	23.94	0.52	0.52	0.65	0.51	5.90	0	0.70	0.60	2.00
L196	166.70 ± 6.00	0.29	-0.10	0.22	26.61	0.31	0.42	0.40	0.37	5.50	0	0.80	0.84	2.10
O196	185.90 ± 7.38	-1.89	-1.33	-3.06	20.15	-2.70	-2.79	-2.86	-2.71	6.00	0	1.20	0	4.13
BLUE <sub>196</sub>	174.27 ± 3.16	0	0	0	100.00	0	0	0	0	2.87	0	0.72	0.37	1.04

Measurements		CVW <sub>183</sub> /%	CVW <sub>189</sub> /%	CVW <sub>192</sub> /%	CVW <sub>196</sub> /%	CVW <sub>200</sub> /%	CVW <sub>202</sub> /%	CVW <sub>205</sub> /%	CVW <sub>207</sub> /%	Stat	LCEU	LCEC	LUEU	LUEC
A200	169.80 ± 5.60	0.98	1.03	1.92	1.79	28.27	1.74	1.70	1.73	5.30	0	0.50	0.89	1.48
D200	173.50 ± 6.02	0.26	0.17	0.72	0.51	24.56	0.41	0.57	0.41	5.60	0	0.70	0.60	2.00
L200	169.40 ± 6.18	0.07	-0.23	0.04	-0.06	23.20	0.23	0.23	0.19	5.70	0	0.80	0.84	2.10
O200	163.20 ± 6.60	-1.32	-0.98	-2.67	-2.23	23.96	-2.38	-2.49	-2.34	5.40	0	0.99	0	3.67
BLUE <sub>200</sub>	168.40 ± 3.05	0	0	0	0	100.00	0	0	0	2.77	0	0.68	0.35	1.01

Measurements		CVW <sub>183</sub> /%	CVW <sub>189</sub> /%	CVW <sub>192</sub> /%	CVW <sub>196</sub> /%	CVW <sub>200</sub> /%	CVW <sub>202</sub> /%	CVW <sub>205</sub> /%	CVW <sub>207</sub> /%	Stat	LCEU	LCEC	LUEU	LUEC
A202	161.60 ± 7.62	0.67	0.63	1.12	1.05	1.04	30.03	1.00	1.02	7.40	0	0.50	0.89	1.48
D202	176.70 ± 8.42	0.06	0.04	0.29	0.19	0.15	24.54	0.23	0.15	8.10	0	0.80	0.65	2.06
L202	169.50 ± 8.83	0.15	-0.03	0.11	0.07	0.15	22.28	0.20	0.18	8.50	0	0.80	0.84	2.10
O202	184.80 ± 9.12	-0.88	-0.64	-1.53	-1.31	-1.34	23.16	-1.43	-1.35	8.10	0	1.15	0	4.04
BLUE <sub>202</sub>	172.27 ± 4.23	0	0	0	0	0	100.00	0	0	4.02	0	0.73	0.37	1.04

Measurements		CVW <sub>183</sub> /%	CVW <sub>189</sub> /%	CVW <sub>192</sub> /%	CVW <sub>196</sub> /%	CVW <sub>200</sub> /%	CVW <sub>202</sub> /%	CVW <sub>205</sub> /%	CVW <sub>207</sub> /%	Stat	LCEU	LCEC	LUEU	LUEC
A205	165.70 ± 5.50	0.93	1.01	1.94	1.80	1.77	1.76	29.66	1.75	5.20	0	0.50	0.89	1.48
D205	174.40 ± 6.39	0.35	0.19	0.72	0.52	0.44	0.44	22.00	0.43	6.00	0	0.60	0.54	2.05
L205	173.50 ± 6.37	~ 0	-0.26	~ 0	-0.10	0.08	0.17	22.07	0.15	5.90	0	0.80	0.84	2.10
O205	159.70 ± 6.38	-1.28	-0.95	-2.67	-2.22	-2.30	-2.37	26.27	-2.33	5.20	0	0.96	0	3.57
BLUE <sub>205</sub>	167.09 ± 3.07	0	0	0	0	0	0	100.00	0	2.80	0	0.65	0.35	1.01

Measurements		CVW <sub>183</sub> /%	CVW <sub>189</sub> /%	CVW <sub>192</sub> /%	CVW <sub>196</sub> /%	CVW <sub>200</sub> /%	CVW <sub>202</sub> /%	CVW <sub>205</sub> /%	CVW <sub>207</sub> /%	Stat	LCEU	LCEC	LUEU	LUEC
A207	173.20 ± 4.48	1.35	1.54	2.95	2.73	2.70	2.66	2.61	29.14	4.10	0	0.50	0.89	1.48
D207	165.00 ± 4.79	0.86	0.54	1.54	1.19	1.03	1.04	1.28	25.87	4.30	0	0.60	0.50	1.95
L207	179.57 ± 5.10	-0.11	-0.49	-0.11	-0.27	0.05	0.20	0.21	22.40	4.50	0	0.80	0.84	2.10
O207	177.70 ± 5.67	-2.10	-1.59	-4.38	-3.65	-3.78	-3.90	-4.10	22.58	4.20	0	0.92	0	3.69
BLUE <sub>207</sub>	173.31 ± 2.50	0	0	0	0	0	0	0	100.00	2.17	0	0.63	0.35	1.01

Table 1: BLUE's of the combination ( $\chi^2/\text{ndof} = 27.42/24$ ). Values /100 are displayed. For each input measurement  $i$ , the central value weight CVW or  $\lambda_i^\alpha$  with which that measurement contributes to the BLUE for observable  $\alpha$  is listed.

	183	189	192	196	200	202	205	207
183	1.00	0.20	0.11	0.17	0.17	0.13	0.17	0.20
189	0.20	1.00	0.13	0.20	0.20	0.15	0.20	0.24
192	0.11	0.13	1.00	0.12	0.12	0.09	0.12	0.14
196	0.17	0.20	0.12	1.00	0.18	0.13	0.17	0.21
200	0.17	0.20	0.12	0.18	1.00	0.13	0.17	0.21
202	0.13	0.15	0.09	0.13	0.13	1.00	0.13	0.16
205	0.17	0.20	0.12	0.17	0.17	0.13	1.00	0.21
207	0.20	0.24	0.14	0.21	0.21	0.16	0.21	1.00

Table 2: Correlations between the BLUE's.

	A183	A189	A192	A196	A200	A202	A205	A207	D183	D189	D192	D196	D200	D202	D205	D207	L183	L189	L192	L196	L200	L202	L205	L207	O183	O189	O192	O196	O200	O202	O205	O207
A183	46.67	4.24	4.24	4.24	4.24	4.24	4.24	4.24	0.77	0.63	0.63	0.63	0.63	0.72	0.54	0.54	0.72	0.40	0.72	0.72	0.72	0.72	0.72	0.72	1.26	0.58	1.08	1.08	0.89	1.03	0.86	0.83
A189	4.24	14.79	2.44	2.44	2.44	2.44	2.44	2.44	0.42	0.35	0.35	0.35	0.35	0.40	0.30	0.30	0.40	0.22	0.40	0.40	0.40	0.40	0.40	0.40	0.70	0.33	0.60	0.60	0.49	0.57	0.48	0.46
A192	4.24	2.44	82.44	2.44	2.44	2.44	2.44	2.44	0.42	0.35	0.35	0.35	0.35	0.40	0.30	0.30	0.40	0.22	0.40	0.40	0.40	0.40	0.40	0.40	0.70	0.33	0.60	0.60	0.49	0.57	0.48	0.46
A196	4.24	2.44	2.44	32.39	2.44	2.44	2.44	2.44	0.42	0.35	0.35	0.35	0.35	0.40	0.30	0.30	0.40	0.22	0.40	0.40	0.40	0.40	0.40	0.40	0.70	0.33	0.60	0.60	0.49	0.57	0.48	0.46
A200	4.24	2.44	2.44	2.44	31.32	2.44	2.44	2.44	0.42	0.35	0.35	0.35	0.35	0.40	0.30	0.30	0.40	0.22	0.40	0.40	0.40	0.40	0.40	0.40	0.70	0.33	0.60	0.60	0.49	0.57	0.48	0.46
A202	4.24	2.44	2.44	2.44	2.44	57.99	2.44	2.44	0.42	0.35	0.35	0.35	0.35	0.40	0.30	0.30	0.40	0.22	0.40	0.40	0.40	0.40	0.40	0.40	0.70	0.33	0.60	0.60	0.49	0.57	0.48	0.46
A205	4.24	2.44	2.44	2.44	2.44	2.44	30.27	2.44	0.42	0.35	0.35	0.35	0.35	0.40	0.30	0.30	0.40	0.22	0.40	0.40	0.40	0.40	0.40	0.40	0.70	0.33	0.60	0.60	0.49	0.57	0.48	0.46
A207	4.24	2.44	2.44	2.44	2.44	2.44	2.44	20.04	0.42	0.35	0.35	0.35	0.35	0.40	0.30	0.30	0.40	0.22	0.40	0.40	0.40	0.40	0.40	0.40	0.70	0.33	0.60	0.60	0.49	0.57	0.48	0.46
D183	0.77	0.42	0.42	0.42	0.42	0.42	0.42	0.42	54.28	4.85	5.29	5.29	5.29	5.52	5.33	5.09	0.68	0.37	0.68	0.68	0.68	0.68	0.68	0.68	1.19	0.55	1.02	1.02	0.84	0.98	0.82	0.78
D189	0.63	0.35	0.35	0.35	0.35	0.35	0.35	0.35	4.85	18.46	4.11	4.11	4.11	4.29	4.13	3.95	0.56	0.31	0.56	0.56	0.56	0.56	0.56	0.56	0.98	0.46	0.84	0.84	0.69	0.81	0.67	0.64
D192	0.63	0.35	0.35	0.35	0.35	0.35	0.35	0.35	5.29	4.11	104.85	4.49	4.49	4.68	4.52	4.32	0.56	0.31	0.56	0.56	0.56	0.56	0.56	0.56	0.98	0.46	0.84	0.84	0.69	0.81	0.67	0.64
D196	0.63	0.35	0.35	0.35	0.35	0.35	0.35	0.35	5.29	4.11	4.49	39.66	4.49	4.68	4.52	4.32	0.56	0.31	0.56	0.56	0.56	0.56	0.56	0.56	0.98	0.46	0.84	0.84	0.69	0.81	0.67	0.64
D200	0.63	0.35	0.35	0.35	0.35	0.35	0.35	0.35	5.29	4.11	4.49	4.49	36.21	4.68	4.52	4.32	0.56	0.31	0.56	0.56	0.56	0.56	0.56	0.56	0.98	0.46	0.84	0.84	0.69	0.81	0.67	0.64
D202	0.72	0.40	0.40	0.40	0.40	0.40	0.40	0.40	5.52	4.29	4.68	4.68	4.68	70.92	4.70	4.50	0.64	0.35	0.64	0.64	0.64	0.64	0.64	0.64	1.12	0.52	0.96	0.96	0.79	0.92	0.77	0.74
D205	0.54	0.30	0.30	0.30	0.30	0.30	0.30	0.30	5.33	4.13	4.52	4.52	4.52	4.70	40.85	4.36	0.48	0.26	0.48	0.48	0.48	0.48	0.48	0.48	0.84	0.39	0.72	0.72	0.59	0.69	0.58	0.55
D207	0.54	0.30	0.30	0.30	0.30	0.30	0.30	0.30	5.09	3.95	4.32	4.32	4.32	4.50	4.36	22.90	0.48	0.26	0.48	0.48	0.48	0.48	0.48	0.48	0.84	0.39	0.72	0.72	0.59	0.69	0.58	0.55
L183	0.72	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.68	0.56	0.56	0.56	0.56	0.64	0.48	0.48	51.64	4.49	4.95	4.95	4.95	4.95	4.95	4.95	1.12	0.52	0.96	0.96	0.79	0.92	0.77	0.74
L189	0.40	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.37	0.31	0.31	0.31	0.31	0.35	0.26	0.26	4.49	18.54	4.59	4.59	4.59	4.59	4.59	4.59	0.62	0.29	0.53	0.53	0.44	0.51	0.42	0.40
L192	0.72	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.68	0.56	0.56	0.56	0.56	0.64	0.48	0.48	4.95	4.59	86.76	5.05	5.05	5.05	5.05	5.05	1.12	0.52	0.96	0.96	0.79	0.92	0.77	0.74
L196	0.72	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.68	0.56	0.56	0.56	0.56	0.64	0.48	0.48	4.95	4.59	5.05	36.01	5.05	5.05	5.05	5.05	1.12	0.52	0.96	0.96	0.79	0.92	0.77	0.74
L200	0.72	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.68	0.56	0.56	0.56	0.56	0.64	0.48	0.48	4.95	4.59	5.05	5.05	38.25	5.05	5.05	5.05	1.12	0.52	0.96	0.96	0.79	0.92	0.77	0.74
L202	0.72	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.68	0.56	0.56	0.56	0.56	0.64	0.48	0.48	4.95	4.59	5.05	5.05	5.05	78.01	5.05	5.05	1.12	0.52	0.96	0.96	0.79	0.92	0.77	0.74
L205	0.72	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.68	0.56	0.56	0.56	0.56	0.64	0.48	0.48	4.95	4.59	5.05	5.05	5.05	5.05	40.57	5.05	1.12	0.52	0.96	0.96	0.79	0.92	0.77	0.74
L207	0.72	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.68	0.56	0.56	0.56	0.56	0.64	0.48	0.48	4.95	4.59	5.05	5.05	5.05	5.05	5.05	26.01	1.12	0.52	0.96	0.96	0.79	0.92	0.77	0.74
O183	1.26	0.70	0.70	0.70	0.70	0.70	0.70	0.70	1.19	0.98	0.98	0.98	0.98	1.12	0.84	0.84	1.12	0.62	1.12	1.12	1.12	1.12	1.12	1.12	43.97	4.59	10.48	10.72	9.42	10.46	9.16	9.37
O189	0.58	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.55	0.46	0.46	0.46	0.46	0.52	0.39	0.39	0.52	0.29	0.52	0.52	0.52	0.52	0.52	0.52	4.59	14.80	7.53	7.72	6.81	7.53	6.62	6.80
O192	1.08	0.60	0.60	0.60	0.60	0.60	0.60	0.60	1.02	0.84	0.84	0.84	0.84	0.96	0.72	0.72	0.96	0.53	0.96	0.96	0.96	0.96	0.96	0.96	10.48	7.53	95.04	18.04	15.94	17.62	15.50	15.94
O196	1.08	0.60	0.60	0.60	0.60	0.60	0.60	0.60	1.02	0.84	0.84	0.84	0.84	0.96	0.72	0.72	0.96	0.53	0.96	0.96	0.96	0.96	0.96	0.96	10.72	7.72	18.04	54.50	16.35	18.07	15.90	16.34
O200	0.89	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.84	0.69	0.69	0.69	0.69	0.79	0.59	0.59	0.79	0.44	0.79	0.79	0.79	0.79	0.79	0.79	9.42	6.81	15.94	16.35	43.61	15.97	14.05	14.45
O202	1.03	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.98	0.81	0.81	0.81	0.81	0.92	0.69	0.69	0.92	0.51	0.92	0.92	0.92	0.92	0.92	0.92	10.46	7.53	17.62	18.07	15.97	83.25	15.53	15.97
O205	0.86	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.82	0.67	0.67	0.67	0.67	0.77	0.58	0.58	0.77	0.42	0.77	0.77	0.77	0.77	0.77	0.77	9.16	6.62	15.50	15.90	14.05	15.53	40.71	14.06
O207	0.83	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.78	0.64	0.64	0.64	0.64	0.74	0.55	0.55	0.74	0.40	0.74	0.74	0.74	0.74	0.74	0.74	9.37	6.80	15.94	16.34	14.45	15.97	14.06	32.10

Table 3: Full input covariance between measurements (summed over error sources). Values /10k are displayed.

	A183	A189	A192	A196	A200	A202	A205	A207	D183	D189	D192	D196	D200	D202	D205	D207	L183	L189	L192	L196	L200	L202	L205	L207	O183	O189	O192	O196	O200	O202	O205	O207
A183	38.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A189	0	11.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A192	0	0	79.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A196	0	0	0	29.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A200	0	0	0	0	28.09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A202	0	0	0	0	0	54.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A205	0	0	0	0	0	0	27.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A207	0	0	0	0	0	0	0	16.81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D183	0	0	0	0	0	0	0	0	47.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D189	0	0	0	0	0	0	0	0	0	14.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D192	0	0	0	0	0	0	0	0	0	0	100.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D196	0	0	0	0	0	0	0	0	0	0	0	34.81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D200	0	0	0	0	0	0	0	0	0	0	0	0	31.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D202	0	0	0	0	0	0	0	0	0	0	0	0	0	65.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44.89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.69	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81.00	0	0	0	0	0	0	0	0	0	0	0	0	0
L196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30.25	0	0	0	0	0	0	0	0	0	0	0	0
L200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.49	0	0	0	0	0	0	0	0	0	0	0
L202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72.25	0	0	0	0	0	0	0	0	0	0
L205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34.81	0	0	0	0	0	0	0	0
L207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.25	0	0	0	0	0	0	0
O183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37.21	0	0	0	0	0	0
O189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.56	0	0	0	0	0	0
O192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77.44	0	0	0	0	0
O196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36.00	0	0	0	0
O200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.16	0	0	0
O202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.61	0	0
O205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.04	0
O207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.64

Table 4: Partial input covariance between measurements. Error source #0: Stat. Values /10k are displayed.

	A183	A189	A192	A196	A200	A202	A205	A207	D183	D189	D192	D196	D200	D202	D205	D207	L183	L189	L192	L196	L200	L202	L205	L207	O183	O189	O192	O196	O200	O202	O205	O207
A183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 5: Partial input covariance between measurements. Error source #1: LCEU. Values /10k are displayed.

	A183	A189	A192	A196	A200	A202	A205	A207	D183	D189	D192	D196	D200	D202	D205	D207	L183	L189	L192	L196	L200	L202	L205	L207	O183	O189	O192	O196	O200	O202	O205	O207
A183	0.81	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.77	0.63	0.63	0.63	0.63	0.72	0.54	0.54	0.72	0.40	0.72	0.72	0.72	0.72	0.72	0.72	1.26	0.58	1.08	1.08	0.89	1.03	0.86	0.83
A189	0.45	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.42	0.35	0.35	0.35	0.35	0.40	0.30	0.30	0.40	0.22	0.40	0.40	0.40	0.40	0.40	0.40	0.70	0.33	0.60	0.60	0.49	0.57	0.48	0.46
A192	0.45	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.42	0.35	0.35	0.35	0.35	0.40	0.30	0.30	0.40	0.22	0.40	0.40	0.40	0.40	0.40	0.40	0.70	0.33	0.60	0.60	0.49	0.57	0.48	0.46
A196	0.45	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.42	0.35	0.35	0.35	0.35	0.40	0.30	0.30	0.40	0.22	0.40	0.40	0.40	0.40	0.40	0.40	0.70	0.33	0.60	0.60	0.49	0.57	0.48	0.46
A200	0.45	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.42	0.35	0.35	0.35	0.35	0.40	0.30	0.30	0.40	0.22	0.40	0.40	0.40	0.40	0.40	0.40	0.70	0.33	0.60	0.60	0.49	0.57	0.48	0.46
A202	0.45	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.42	0.35	0.35	0.35	0.35	0.40	0.30	0.30	0.40	0.22	0.40	0.40	0.40	0.40	0.40	0.40	0.70	0.33	0.60	0.60	0.49	0.57	0.48	0.46
A205	0.45	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.42	0.35	0.35	0.35	0.35	0.40	0.30	0.30	0.40	0.22	0.40	0.40	0.40	0.40	0.40	0.40	0.70	0.33	0.60	0.60	0.49	0.57	0.48	0.46
A207	0.45	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.42	0.35	0.35	0.35	0.35	0.40	0.30	0.30	0.40	0.22	0.40	0.40	0.40	0.40	0.40	0.40	0.70	0.33	0.60	0.60	0.49	0.57	0.48	0.46
D183	0.77	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.72	0.59	0.59	0.59	0.59	0.68	0.51	0.51	0.68	0.37	0.68	0.68	0.68	0.68	0.68	0.68	1.19	0.55	1.02	1.02	0.84	0.98	0.82	0.78
D189	0.63	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.59	0.49	0.49	0.49	0.49	0.56	0.42	0.42	0.56	0.31	0.56	0.56	0.56	0.56	0.56	0.56	0.98	0.46	0.84	0.84	0.69	0.81	0.67	0.64
D192	0.63	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.59	0.49	0.49	0.49	0.49	0.56	0.42	0.42	0.56	0.31	0.56	0.56	0.56	0.56	0.56	0.56	0.98	0.46	0.84	0.84	0.69	0.81	0.67	0.64
D196	0.63	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.59	0.49	0.49	0.49	0.49	0.56	0.42	0.42	0.56	0.31	0.56	0.56	0.56	0.56	0.56	0.56	0.98	0.46	0.84	0.84	0.69	0.81	0.67	0.64
D200	0.63	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.59	0.49	0.49	0.49	0.49	0.56	0.42	0.42	0.56	0.31	0.56	0.56	0.56	0.56	0.56	0.56	0.98	0.46	0.84	0.84	0.69	0.81	0.67	0.64
D202	0.72	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.68	0.56	0.56	0.56	0.56	0.64	0.48	0.48	0.64	0.35	0.64	0.64	0.64	0.64	0.64	0.64	1.12	0.52	0.96	0.96	0.79	0.92	0.77	0.74
D205	0.54	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.51	0.42	0.42	0.42	0.42	0.48	0.36	0.36	0.48	0.26	0.48	0.48	0.48	0.48	0.48	0.48	0.84	0.39	0.72	0.72	0.59	0.69	0.58	0.55
D207	0.54	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.51	0.42	0.42	0.42	0.42	0.48	0.36	0.36	0.48	0.26	0.48	0.48	0.48	0.48	0.48	0.48	0.84	0.39	0.72	0.72	0.59	0.69	0.58	0.55
L183	0.72	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.68	0.56	0.56	0.56	0.56	0.64	0.48	0.48	0.64	0.35	0.64	0.64	0.64	0.64	0.64	0.64	1.12	0.52	0.96	0.96	0.79	0.92	0.77	0.74
L189	0.40	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.37	0.31	0.31	0.31	0.31	0.35	0.26	0.26	0.35	0.19	0.35	0.35	0.35	0.35	0.35	0.35	0.62	0.29	0.53	0.53	0.44	0.51	0.42	0.40
L192	0.72	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.68	0.56	0.56	0.56	0.56	0.64	0.48	0.48	0.64	0.35	0.64	0.64	0.64	0.64	0.64	0.64	1.12	0.52	0.96	0.96	0.79	0.92	0.77	0.74
L196	0.72	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.68	0.56	0.56	0.56	0.56	0.64	0.48	0.48	0.64	0.35	0.64	0.64	0.64	0.64	0.64	0.64	1.12	0.52	0.96	0.96	0.79	0.92	0.77	0.74
L200	0.72	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.68	0.56	0.56	0.56	0.56	0.64	0.48	0.48	0.64	0.35	0.64	0.64	0.64	0.64	0.64	0.64	1.12	0.52	0.96	0.96	0.79	0.92	0.77	0.74
L202	0.72	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.68	0.56	0.56	0.56	0.56	0.64	0.48	0.48	0.64	0.35	0.64	0.64	0.64	0.64	0.64	0.64	1.12	0.52	0.96	0.96	0.79	0.92	0.77	0.74
L205	0.72	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.68	0.56	0.56	0.56	0.56	0.64	0.48	0.48	0.64	0.35	0.64	0.64	0.64	0.64	0.64	0.64	1.12	0.52	0.96	0.96	0.79	0.92	0.77	0.74
L207	0.72	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.68	0.56	0.56	0.56	0.56	0.64	0.48	0.48	0.64	0.35	0.64	0.64	0.64	0.64	0.64	0.64	1.12	0.52	0.96	0.96	0.79	0.92	0.77	0.74
O183	1.26	0.70	0.70	0.70	0.70	0.70	0.70	0.70	1.19	0.98	0.98	0.98	0.98	1.12	0.84	0.84	1.12	0.62	1.12	1.12	1.12	1.12	1.12	1.12	1.96	0.91	1.68	1.68	1.39	1.61	1.34	1.29
O189	0.58	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.55	0.46	0.46	0.46	0.46	0.52	0.39	0.39	0.52	0.29	0.52	0.52	0.52	0.52	0.52	0.52	0.91	0.42	0.78	0.78	0.64	0.75	0.62	0.60
O192	1.08	0.60	0.60	0.60	0.60	0.60	0.60	0.60	1.02	0.84	0.84	0.84	0.84	0.96	0.72	0.72	0.96	0.53	0.96	0.96	0.96	0.96	0.96	0.96	1.68	0.78	1.44	1.44	1.19	1.38	1.15	1.10
O196	1.08	0.60	0.60	0.60	0.60	0.60	0.60	0.60	1.02	0.84	0.84	0.84	0.84	0.96	0.72	0.72	0.96	0.53	0.96	0.96	0.96	0.96	0.96	0.96	1.68	0.78	1.44	1.44	1.19	1.38	1.15	1.10
O200	0.89	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.84	0.69	0.69	0.69	0.69	0.79	0.59	0.59	0.79	0.44	0.79	0.79	0.79	0.79	0.79	0.79	1.39	0.64	1.19	1.19	0.98	1.14	0.95	0.91
O202	1.03	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.98	0.81	0.81	0.81	0.81	0.92	0.69	0.69	0.92	0.51	0.92	0.92	0.92	0.92	0.92	0.92	1.61	0.75	1.38	1.38	1.14	1.32	1.10	1.06
O205	0.86	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.82	0.67	0.67	0.67	0.67	0.77	0.58	0.58	0.77	0.42	0.77	0.77	0.77	0.77	0.77	0.77	1.34	0.62	1.15	1.15	0.95	1.10	0.92	0.88
O207	0.83	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.78	0.64	0.64	0.64	0.64	0.74	0.55	0.55	0.74	0.40	0.74	0.74	0.74	0.74	0.74	0.74	1.29	0.60	1.10	1.10	0.91	1.06	0.88	0.85

Table 6: Partial input covariance between measurements. Error source #2: LCEC. Values /10k are displayed.

	A183	A189	A192	A196	A200	A202	A205	A207	D183	D189	D192	D196	D200	D202	D205	D207	L183	L189	L192	L196	L200	L202	L205	L207	O183	O189	O192	O196	O200	O202	O205	O207
A183	0.86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A189	0	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A192	0	0	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A196	0	0	0	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A200	0	0	0	0	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A202	0	0	0	0	0	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A205	0	0	0	0	0	0	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A207	0	0	0	0	0	0	0	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D183	0	0	0	0	0	0	0	0	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D189	0	0	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D192	0	0	0	0	0	0	0	0	0	0	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D196	0	0	0	0	0	0	0	0	0	0	0	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D200	0	0	0	0	0	0	0	0	0	0	0	0	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D202	0	0	0	0	0	0	0	0	0	0	0	0	0	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.71	0	0	0	0	0	0	0	0	0	0	0	0	0
L196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.71	0	0	0	0	0	0	0	0	0	0	0	0
L200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.71	0	0	0	0	0	0	0	0	0	0	0
L202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.71	0	0	0	0	0	0	0	0	0	0
L205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.71	0	0	0	0	0	0	0	0	0
L207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.71	0	0	0	0	0	0	0	0
O183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 7: Partial input covariance between measurements. Error source #3: LUEU. Values /10k are displayed.

	A183	A189	A192	A196	A200	A202	A205	A207	D183	D189	D192	D196	D200	D202	D205	D207	L183	L189	L192	L196	L200	L202	L205	L207	O183	O189	O192	O196	O200	O202	O205	O207
A183	6.55	3.79	3.79	3.79	3.79	3.79	3.79	3.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A189	3.79	2.19	2.19	2.19	2.19	2.19	2.19	2.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A192	3.79	2.19	2.19	2.19	2.19	2.19	2.19	2.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A196	3.79	2.19	2.19	2.19	2.19	2.19	2.19	2.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A200	3.79	2.19	2.19	2.19	2.19	2.19	2.19	2.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A202	3.79	2.19	2.19	2.19	2.19	2.19	2.19	2.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A205	3.79	2.19	2.19	2.19	2.19	2.19	2.19	2.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A207	3.79	2.19	2.19	2.19	2.19	2.19	2.19	2.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D183	0	0	0	0	0	0	0	0	5.52	4.25	4.70	4.70	4.70	4.84	4.82	4.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D189	0	0	0	0	0	0	0	0	4.25	3.28	3.62	3.62	3.62	3.73	3.71	3.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D192	0	0	0	0	0	0	0	0	4.70	3.62	4.00	4.00	4.00	4.12	4.10	3.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D196	0	0	0	0	0	0	0	0	4.70	3.62	4.00	4.00	4.00	4.12	4.10	3.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D200	0	0	0	0	0	0	0	0	4.70	3.62	4.00	4.00	4.00	4.12	4.10	3.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D202	0	0	0	0	0	0	0	0	4.84	3.73	4.12	4.12	4.12	4.24	4.22	4.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D205	0	0	0	0	0	0	0	0	4.82	3.71	4.10	4.10	4.10	4.22	4.20	4.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D207	0	0	0	0	0	0	0	0	4.58	3.53	3.90	3.90	3.90	4.02	4.00	3.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.20	4.14	4.30	4.30	4.30	4.30	4.30	4.30	0	0	0	0	0	0	0	0
L189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.14	4.08	4.24	4.24	4.24	4.24	4.24	4.24	0	0	0	0	0	0	0	0
L192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.30	4.24	4.41	4.41	4.41	4.41	4.41	4.41	0	0	0	0	0	0	0	0
L196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.30	4.24	4.41	4.41	4.41	4.41	4.41	4.41	0	0	0	0	0	0	0	0
L200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.30	4.24	4.41	4.41	4.41	4.41	4.41	4.41	0	0	0	0	0	0	0	0
L202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.30	4.24	4.41	4.41	4.41	4.41	4.41	4.41	0	0	0	0	0	0	0	0
L205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.30	4.24	4.41	4.41	4.41	4.41	4.41	4.41	0	0	0	0	0	0	0	0
L207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.30	4.24	4.41	4.41	4.41	4.41	4.41	4.41	0	0	0	0	0	0	0	0
O183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.80	3.68	8.80	9.04	8.04	8.85	7.82	8.08
O189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.68	2.82	6.75	6.94	6.17	6.79	6.00	6.20
O192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.80	6.75	16.16	16.60	14.75	16.24	14.35	14.83
O196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.04	6.94	16.60	17.06	15.16	16.69	14.74	15.24
O200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.04	6.17	14.75	15.16	13.47	14.83	13.10	13.54
O202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.85	6.79	16.24	16.69	14.83	16.32	14.42	14.91
O205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.82	6.00	14.35	14.74	13.10	14.42	12.74	13.17
O207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.08	6.20	14.83	15.24	13.54	14.91	13.17	13.62

Table 8: Partial input covariance between measurements. Error source #4: LUEC. Values /10k are displayed.



## 2 Modified correlations.

### 2.1 Zero correlations.

Measurements	CVW <sub>183</sub> /%	CVW <sub>189</sub> /%	CVW <sub>192</sub> /%	CVW <sub>196</sub> /%	CVW <sub>200</sub> /%	CVW <sub>202</sub> /%	CVW <sub>205</sub> /%	CVW <sub>207</sub> /%	Stat	LCEU	LCEC	LUEU	LUEC
A183    155.70 ± 6.83	26.14	0	0	0	0	0	0	0	6.20	0	0.90	0.93	2.56
D183    158.60 ± 7.37	22.48	0	0	0	0	0	0	0	6.90	0	0.85	0.65	2.35
L183    165.30 ± 7.19	23.63	0	0	0	0	0	0	0	6.70	0	0.80	1.38	2.05
O183    154.30 ± 6.63	27.75	0	0	0	0	0	0	0	6.10	0	1.40	0	2.19
BLUE <sub>183</sub> 158.23 ± 3.49	100.00	0	0	0	0	0	0	0	3.23	0	0.53	0.43	1.15

Measurements	CVW <sub>183</sub> /%	CVW <sub>189</sub> /%	CVW <sub>192</sub> /%	CVW <sub>196</sub> /%	CVW <sub>200</sub> /%	CVW <sub>202</sub> /%	CVW <sub>205</sub> /%	CVW <sub>207</sub> /%	Stat	LCEU	LCEC	LUEU	LUEC
A189    157.10 ± 3.85	0	27.79	0	0	0	0	0	0	3.40	0	0.50	0.89	1.48
D189    158.30 ± 4.30	0	22.27	0	0	0	0	0	0	3.80	0	0.70	0.50	1.81
L189    162.40 ± 4.31	0	22.17	0	0	0	0	0	0	3.70	0	0.44	0.76	2.02
O189    163.00 ± 3.85	0	27.77	0	0	0	0	0	0	3.40	0	0.65	0	1.68
BLUE <sub>189</sub> 160.18 ± 2.03	0	100.00	0	0	0	0	0	0	1.78	0	0.29	0.32	0.87

Measurements	CVW <sub>183</sub> /%	CVW <sub>189</sub> /%	CVW <sub>192</sub> /%	CVW <sub>196</sub> /%	CVW <sub>200</sub> /%	CVW <sub>202</sub> /%	CVW <sub>205</sub> /%	CVW <sub>207</sub> /%	Stat	LCEU	LCEC	LUEU	LUEC
A192    172.30 ± 9.08	0	0	27.75	0	0	0	0	0	8.90	0	0.50	0.89	1.48
D192    169.00 ± 10.24	0	0	21.82	0	0	0	0	0	10.00	0	0.70	0.60	2.00
L192    163.90 ± 9.31	0	0	26.37	0	0	0	0	0	9.00	0	0.80	0.84	2.10
O192    166.00 ± 9.75	0	0	24.07	0	0	0	0	0	8.80	0	1.20	0	4.02
BLUE <sub>192</sub> 167.85 ± 4.78	0	0	100.00	0	0	0	0	0	4.58	0	0.41	0.36	1.27

Measurements	CVW <sub>183</sub> /%	CVW <sub>189</sub> /%	CVW <sub>192</sub> /%	CVW <sub>196</sub> /%	CVW <sub>200</sub> /%	CVW <sub>202</sub> /%	CVW <sub>205</sub> /%	CVW <sub>207</sub> /%	Stat	LCEU	LCEC	LUEU	LUEC
A196    170.00 ± 5.69	0	0	0	30.20	0	0	0	0	5.40	0	0.50	0.89	1.48
D196    178.60 ± 6.30	0	0	0	24.67	0	0	0	0	5.90	0	0.70	0.60	2.00
L196    166.70 ± 6.00	0	0	0	27.17	0	0	0	0	5.50	0	0.80	0.84	2.10
O196    185.90 ± 7.38	0	0	0	17.95	0	0	0	0	6.00	0	1.20	0	4.13
BLUE <sub>196</sub> 174.08 ± 3.13	0	0	0	100.00	0	0	0	0	2.86	0	0.38	0.38	1.15

Measurements	CVW <sub>183</sub> /%	CVW <sub>189</sub> /%	CVW <sub>192</sub> /%	CVW <sub>196</sub> /%	CVW <sub>200</sub> /%	CVW <sub>202</sub> /%	CVW <sub>205</sub> /%	CVW <sub>207</sub> /%	Stat	LCEU	LCEC	LUEU	LUEC
A200    169.80 ± 5.60	0	0	0	0	29.39	0	0	0	5.30	0	0.50	0.89	1.48
D200    173.50 ± 6.02	0	0	0	0	25.42	0	0	0	5.60	0	0.70	0.60	2.00
L200    169.40 ± 6.18	0	0	0	0	24.07	0	0	0	5.70	0	0.80	0.84	2.10
O200    163.20 ± 6.60	0	0	0	0	21.11	0	0	0	5.40	0	0.99	0	3.67
BLUE <sub>200</sub> 169.25 ± 3.03	0	0	0	0	100.00	0	0	0	2.76	0	0.37	0.36	1.14

Measurements		CVW <sub>183</sub> /%	CVW <sub>189</sub> /%	CVW <sub>192</sub> /%	CVW <sub>196</sub> /%	CVW <sub>200</sub> /%	CVW <sub>202</sub> /%	CVW <sub>205</sub> /%	CVW <sub>207</sub> /%	Stat	LCEU	LCEC	LUEU	LUEC
A202	161.60 ± 7.62	0	0	0	0	0	30.70	0	0	7.40	0	0.50	0.89	1.48
D202	176.70 ± 8.42	0	0	0	0	0	25.10	0	0	8.10	0	0.80	0.65	2.06
L202	169.50 ± 8.83	0	0	0	0	0	22.82	0	0	8.50	0	0.80	0.84	2.10
O202	184.80 ± 9.12	0	0	0	0	0	21.38	0	0	8.10	0	1.15	0	4.04
BLUE <sub>202</sub>	172.15 ± 4.22	0	0	0	0	0	100.00	0	0	4.01	0	0.40	0.37	1.20

Measurements		CVW <sub>183</sub> /%	CVW <sub>189</sub> /%	CVW <sub>192</sub> /%	CVW <sub>196</sub> /%	CVW <sub>200</sub> /%	CVW <sub>202</sub> /%	CVW <sub>205</sub> /%	CVW <sub>207</sub> /%	Stat	LCEU	LCEC	LUEU	LUEC
A205	165.70 ± 5.50	0	0	0	0	0	0	30.95	0	5.20	0	0.50	0.89	1.48
D205	174.40 ± 6.39	0	0	0	0	0	0	22.93	0	6.00	0	0.60	0.54	2.05
L205	173.50 ± 6.37	0	0	0	0	0	0	23.10	0	5.90	0	0.80	0.84	2.10
O205	159.70 ± 6.38	0	0	0	0	0	0	23.02	0	5.20	0	0.96	0	3.57
BLUE <sub>205</sub>	168.12 ± 3.06	0	0	0	0	0	0	100.00	0	2.79	0	0.35	0.36	1.16

Measurements		CVW <sub>183</sub> /%	CVW <sub>189</sub> /%	CVW <sub>192</sub> /%	CVW <sub>196</sub> /%	CVW <sub>200</sub> /%	CVW <sub>202</sub> /%	CVW <sub>205</sub> /%	CVW <sub>207</sub> /%	Stat	LCEU	LCEC	LUEU	LUEC
A207	173.20 ± 4.48	0	0	0	0	0	0	0	30.58	4.10	0	0.50	0.89	1.48
D207	165.00 ± 4.79	0	0	0	0	0	0	0	26.76	4.30	0	0.60	0.50	1.95
L207	179.57 ± 5.10	0	0	0	0	0	0	0	23.57	4.50	0	0.80	0.84	2.10
O207	177.70 ± 5.67	0	0	0	0	0	0	0	19.09	4.20	0	0.92	0	3.69
BLUE <sub>207</sub>	173.37 ± 2.48	0	0	0	0	0	0	0	100.00	2.16	0	0.34	0.36	1.10

Table 9: BLUE's of the combination ( $\chi^2/\text{ndof} = 22.98/24$ ). Values /100 are displayed. For each input measurement  $i$ , the central value weight CVW or  $\lambda_i^\alpha$  with which that measurement contributes to the BLUE for observable  $\alpha$  is listed.

$$\left( \begin{array}{c|cccccccc} & 183 & 189 & 192 & 196 & 200 & 202 & 205 & 207 \\ \hline 183 & 1.00 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 189 & 0 & 1.00 & 0 & 0 & 0 & 0 & 0 & 0 \\ 192 & 0 & 0 & 1.00 & 0 & 0 & 0 & 0 & 0 \\ 196 & 0 & 0 & 0 & 1.00 & 0 & 0 & 0 & 0 \\ 200 & 0 & 0 & 0 & 0 & 1.00 & 0 & 0 & 0 \\ 202 & 0 & 0 & 0 & 0 & 0 & 1.00 & 0 & 0 \\ 205 & 0 & 0 & 0 & 0 & 0 & 0 & 1.00 & 0 \\ 207 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1.00 \end{array} \right)$$

Table 10: Correlations between the BLUE's.

	A183	A189	A192	A196	A200	A202	A205	A207	D183	D189	D192	D196	D200	D202	D205	D207	L183	L189	L192	L196	L200	L202	L205	L207	O183	O189	O192	O196	O200	O202	O205	O207
A183	46.67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A189	0	14.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A192	0	0	82.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A196	0	0	0	32.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A200	0	0	0	0	31.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A202	0	0	0	0	0	57.99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A205	0	0	0	0	0	0	30.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A207	0	0	0	0	0	0	0	20.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D183	0	0	0	0	0	0	0	0	54.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D189	0	0	0	0	0	0	0	0	0	18.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D192	0	0	0	0	0	0	0	0	0	0	104.85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D196	0	0	0	0	0	0	0	0	0	0	0	39.66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D200	0	0	0	0	0	0	0	0	0	0	0	0	36.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D202	0	0	0	0	0	0	0	0	0	0	0	0	0	70.92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40.85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51.64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86.76	0	0	0	0	0	0	0	0	0	0	0	0	0
L196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36.01	0	0	0	0	0	0	0	0	0	0	0	0
L200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38.25	0	0	0	0	0	0	0	0	0	0	0
L202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78.01	0	0	0	0	0	0	0	0	0	0
L205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40.57	0	0	0	0	0	0	0	0	0
L207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26.01	0	0	0	0	0	0	0	0
O183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43.97	0	0	0	0	0	0	0
O189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14.80	0	0	0	0	0	0
O192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95.04	0	0	0	0	0
O196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54.50	0	0	0	0
O200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43.61	0	0	0
O202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83.25	0	0
O205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40.71	0
O207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10

Table 11: Full input covariance between measurements (summed over error sources). Values /10k are displayed.

	A183	A189	A192	A196	A200	A202	A205	A207	D183	D189	D192	D196	D200	D202	D205	D207	L183	L189	L192	L196	L200	L202	L205	L207	O183	O189	O192	O196	O200	O202	O205	O207
A183	38.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A189	0	11.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A192	0	0	79.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A196	0	0	0	29.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A200	0	0	0	0	28.09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A202	0	0	0	0	0	54.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A205	0	0	0	0	0	0	27.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A207	0	0	0	0	0	0	0	16.81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D183	0	0	0	0	0	0	0	0	47.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D189	0	0	0	0	0	0	0	0	0	14.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D192	0	0	0	0	0	0	0	0	0	0	100.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D196	0	0	0	0	0	0	0	0	0	0	0	34.81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D200	0	0	0	0	0	0	0	0	0	0	0	0	31.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D202	0	0	0	0	0	0	0	0	0	0	0	0	0	65.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44.89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.69	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81.00	0	0	0	0	0	0	0	0	0	0	0	0	0
L196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30.25	0	0	0	0	0	0	0	0	0	0	0	0
L200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.49	0	0	0	0	0	0	0	0	0	0	0
L202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72.25	0	0	0	0	0	0	0	0	0	0
L205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34.81	0	0	0	0	0	0	0	0	0
L207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.25	0	0	0	0	0	0	0	0
O183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37.21	0	0	0	0	0	0	0
O189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.56	0	0	0	0	0	0
O192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77.44	0	0	0	0	0
O196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36.00	0	0	0	0
O200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.16	0	0	0
O202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.61	0	0
O205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.04	0
O207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.64

Table 12: Partial input covariance between measurements. Error source #0: Stat. Values /10k are displayed.

	A183	A189	A192	A196	A200	A202	A205	A207	D183	D189	D192	D196	D200	D202	D205	D207	L183	L189	L192	L196	L200	L202	L205	L207	O183	O189	O192	O196	O200	O202	O205	O207
A183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 13: Partial input covariance between measurements. Error source #1: LCEU. Values /10k are displayed.

	A183	A189	A192	A196	A200	A202	A205	A207	D183	D189	D192	D196	D200	D202	D205	D207	L183	L189	L192	L196	L200	L202	L205	L207	O183	O189	O192	O196	O200	O202	O205	O207
A183	0.81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A189	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A192	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A196	0	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A200	0	0	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A202	0	0	0	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A205	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A207	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D183	0	0	0	0	0	0	0	0	0.72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D189	0	0	0	0	0	0	0	0	0	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D192	0	0	0	0	0	0	0	0	0	0	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D196	0	0	0	0	0	0	0	0	0	0	0	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D200	0	0	0	0	0	0	0	0	0	0	0	0	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D202	0	0	0	0	0	0	0	0	0	0	0	0	0	0.64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.64	0	0	0	0	0	0	0	0	0	0	0	0	0
L196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.64	0	0	0	0	0	0	0	0	0	0	0	0
L200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.64	0	0	0	0	0	0	0	0	0	0	0
L202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.64	0	0	0	0	0	0	0	0	0	0
L205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.64	0	0	0	0	0	0	0	0	0
L207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.64	0	0	0	0	0	0	0	0
O183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.96	0	0	0	0	0	0	0
O189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.42	0	0	0	0	0	0
O192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.44	0	0	0	0	0
O196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.44	0	0	0	0
O200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.98	0	0	0
O202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.32	0	0
O205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.92	0
O207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.85

Table 14: Partial input covariance between measurements. Error source #2: LCEC. Values /10k are displayed.

	A183	A189	A192	A196	A200	A202	A205	A207	D183	D189	D192	D196	D200	D202	D205	D207	L183	L189	L192	L196	L200	L202	L205	L207	O183	O189	O192	O196	O200	O202	O205	O207
A183	0.86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A189	0	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A192	0	0	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A196	0	0	0	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A200	0	0	0	0	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A202	0	0	0	0	0	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A205	0	0	0	0	0	0	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A207	0	0	0	0	0	0	0	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D183	0	0	0	0	0	0	0	0	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D189	0	0	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D192	0	0	0	0	0	0	0	0	0	0	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D196	0	0	0	0	0	0	0	0	0	0	0	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D200	0	0	0	0	0	0	0	0	0	0	0	0	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D202	0	0	0	0	0	0	0	0	0	0	0	0	0	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.71	0	0	0	0	0	0	0	0	0	0	0	0	0
L196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.71	0	0	0	0	0	0	0	0	0	0	0	0
L200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.71	0	0	0	0	0	0	0	0	0	0	0
L202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.71	0	0	0	0	0	0	0	0	0	0
L205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.71	0	0	0	0	0	0	0	0	0
L207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.71	0	0	0	0	0	0	0	0
O183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 15: Partial input covariance between measurements. Error source #3: LUEU. Values /10k are displayed.

	A183	A189	A192	A196	A200	A202	A205	A207	D183	D189	D192	D196	D200	D202	D205	D207	L183	L189	L192	L196	L200	L202	L205	L207	O183	O189	O192	O196	O200	O202	O205	O207
A183	6.55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A189	0	2.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A192	0	0	2.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A196	0	0	0	2.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A200	0	0	0	0	2.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A202	0	0	0	0	0	2.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A205	0	0	0	0	0	0	2.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A207	0	0	0	0	0	0	0	2.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D183	0	0	0	0	0	0	0	0	5.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D189	0	0	0	0	0	0	0	0	0	3.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D192	0	0	0	0	0	0	0	0	0	0	4.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D196	0	0	0	0	0	0	0	0	0	0	0	4.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D200	0	0	0	0	0	0	0	0	0	0	0	0	4.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D202	0	0	0	0	0	0	0	0	0	0	0	0	0	4.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.41	0	0	0	0	0	0	0	0	0	0	0	0	0
L196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.41	0	0	0	0	0	0	0	0	0	0	0	0
L200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.41	0	0	0	0	0	0	0	0	0	0	0
L202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.41	0	0	0	0	0	0	0	0	0	0
L205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.41	0	0	0	0	0	0	0	0	0
L207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.41	0	0	0	0	0	0	0	0
O183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.80	0	0	0	0	0	0	0
O189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.82	0	0	0	0	0	0
O192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16.16	0	0	0	0	0
O196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.06	0	0	0	0
O200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.47	0	0	0
O202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16.32	0	0
O205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.74	0
O207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.62

Table 16: Partial input covariance between measurements. Error source #4: LUEC. Values /10k are displayed.



## Appendix A1. Input data.

```

1 #=====
2 #==== BlueFin input data file =====
3 #=====
4
5 # The file is expected to have the following format.
6 # Blank lines and lines with only empty spaces are ignored.
7 # Lines starting by '#' are reserved for comments and are ignored.
8 # Data lines are composed of fields separated by one or more empty spaces.
9 # Fields cannot contain empty spaces, with the exception of the title line.
10
11 # The next line must have 2 fields: 'TITLE' and the title of the
12 # BlueFin combination, which must be enclosed within double quotes
13 # and may contain only alphanumeric characters or spaces or hyphens.
14 TITLE "LEP2 WW cross sections"
15
16 # The next line must have 2 fields: 'NOBS' and the number of observables.
17 NOBS 8
18
19 # The next line must have 2 fields: 'NMEA' and the number of measurements.
20 NMEA 32
21
22 # The next line must have 2 fields: 'NERR' and the number of error sources.
23 NERR 5
24
25 # The next NERR+3 lines must have NMEA+1 fields in this format:
26 # - in the 1st line: 'MEANAME' followed by NMEA distinct measurement names
27 #   (measurement names may contain only alphanumeric characters or spaces);
28 # - in the 2nd line: 'OBSNAME' followed by the NMEA names (with NOBS distinct
29 #   values) of the observables measured by the corresponding measurements
30 #   (observable names may contain only alphanumeric characters or spaces
31 #   and should preferably be at most 3 characters long);
32 # - in the 3rd line: 'MEAVAL' followed by the NMEA measured central values;
33 # - in each of the last NERR lines: the error source name followed by the
34 #   NMEA partial errors for each measurement due to the given error source
35 #   (error source names may contain only alphanumeric characters or spaces).
36 # === From echo 'cat sww.in | egrep '\+(A|D|L|O)' | awk '{print substr($1,2,1)$2}' | sed 's| | |g'
37 MEANAME A183 A189 A192 A196 A200 A202 A205 A207 D183 D189 D192 D196 D200 D202 D205 D207 L183 L189 L192 L196 L200 L202 L205 L207
38         0183 0189 0192 0196 0200 0202 0205 0207
39 # === From echo 'cat sww.in | egrep '\+(A|D|L|O)' | awk '{print "C"$2}' | sed 's| | |g'
40 OBSNAME 183 189 192 196 200 202 205 207 183 189 192 196 200 202 205 207 183 189 192 196 200 202 205 207
41         183 189 192 196 200 202 205 207
42 # === From echo 'cat sww.in | egrep '\+(A|D|L|O)' | awk '{print $3}'
43 MEAVAL 15570 15710 17230 17000 16980 16160 16570 17320 15860 15830 16900 17860 17350 17670 17440 16500 16530 16240 16390 16670 16940 16950 17350 17957
44         15430 16300 16600 18590 16320 18480 15970 17770
45 # === From echo 'cat sww.in | egrep '\+(A|D|L|O)' | awk '{print $4}' | sed 's| | |g'
46 Stat 620 340 890 540 530 740 520 410 690 380 1000 590 560 810 600 430 670 370 900 550 570 850 590 450
47         610 340 880 600 540 810 520 420
48 # === From echo 'cat sww.in | egrep '\+(A|D|L|O)' | awk '{print $7}' | sed 's| | |g'
49 LCEU 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
50         0 0 0 0 0 0 0 0
51 # === From echo 'cat sww.in | egrep '\+(A|D|L|O)' | awk '{print $8}' | sed 's| | |g'

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47 LCEC      90      50      50      50      50      50      50      50      85      70      70      70      70      80      60      60      80      44      80      80      80      80      80      80
    140      65      120      120      99      115      96      92
48 # === From echo 'cat sww.in | egrep '\+(A|D|L|O)' | awk '{print $9}' | sed 's| | |g'
49 LUEU      93      89      89      89      89      89      89      89      65      50      60      60      60      65      54      50      138      76      84      84      84      84      84
    0      0      0      0      0      0      0      0
50 # === From echo 'cat sww.in | egrep '\+(A|D|L|O)' | awk '{print $10}' | sed 's| | |g'
51 LUEC      256      148      148      148      148      148      148      148      235      181      200      200      200      206      205      195      205      202      210      210      210      210      210
    219      168      402      413      367      404      357      369
52
53 # The next NMEA*(NMEA-1)/2+1 rows must have NERR+2 fields in this format:
54 # - in the 1st line: 'CMEA1' 'CMEA2' (correlations between 2 measurements)
55 # - followed by the NERR error source names in the same order used above;
56 # - in each of the NMEA*(NMEA-1)/2 last lines: the names of two distinct
57 # measurements followed by the NERR correlations between the partial
58 # errors on the two measurements due to corresponding error source.
59 # Measurements must appear in the same order listed above.
60 # === From: adlo="A D L O"; ecms="183 189 192 196 200 202 205 207"; for a1 in $adlo; do for e1 in $ecms; do for a2 in $adlo; do for e2 in $ecms; do m1=
    $a1$e1; m2=$a2$e2; lueu=0; lcec=1; if [ "$e1" == "$e2" ]; then lceu=1; else lceu=0; fi; if [ "$a1" == "$a2" ]; then luec=1; else luec=0; fi; if [[ $m2
    > $m1 ]]; then echo "$m1 $m2 0 $lceu $lcec $lueu $luec"; fi; done; done; done; done
61 CMEA1 CMEA2 Stat LCEU LCEC LUEU LUEC
62 A183 A189 0 0 1 0 1
63 A183 A192 0 0 1 0 1
64 A183 A196 0 0 1 0 1
65 A183 A200 0 0 1 0 1
66 A183 A202 0 0 1 0 1
67 A183 A205 0 0 1 0 1
68 A183 A207 0 0 1 0 1
69 A183 D183 0 1 1 0 0
70 A183 D189 0 0 1 0 0
71 A183 D192 0 0 1 0 0
72 A183 D196 0 0 1 0 0
73 A183 D200 0 0 1 0 0
74 A183 D202 0 0 1 0 0
75 A183 D205 0 0 1 0 0
76 A183 D207 0 0 1 0 0
77 A183 L183 0 1 1 0 0
78 A183 L189 0 0 1 0 0
79 A183 L192 0 0 1 0 0
80 A183 L196 0 0 1 0 0
81 A183 L200 0 0 1 0 0
82 A183 L202 0 0 1 0 0
83 A183 L205 0 0 1 0 0
84 A183 L207 0 0 1 0 0
85 A183 O183 0 1 1 0 0
86 A183 O189 0 0 1 0 0
87 A183 O192 0 0 1 0 0
88 A183 O196 0 0 1 0 0
89 A183 O200 0 0 1 0 0
90 A183 O202 0 0 1 0 0
91 A183 O205 0 0 1 0 0
92 A183 O207 0 0 1 0 0
93 A189 A192 0 0 1 0 1
94 A189 A196 0 0 1 0 1
95 A189 A200 0 0 1 0 1

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96	A189	A202	0	0	1	0	1
97	A189	A205	0	0	1	0	1
98	A189	A207	0	0	1	0	1
99	A189	D183	0	0	1	0	0
100	A189	D189	0	1	1	0	0
101	A189	D192	0	0	1	0	0
102	A189	D196	0	0	1	0	0
103	A189	D200	0	0	1	0	0
104	A189	D202	0	0	1	0	0
105	A189	D205	0	0	1	0	0
106	A189	D207	0	0	1	0	0
107	A189	L183	0	0	1	0	0
108	A189	L189	0	1	1	0	0
109	A189	L192	0	0	1	0	0
110	A189	L196	0	0	1	0	0
111	A189	L200	0	0	1	0	0
112	A189	L202	0	0	1	0	0
113	A189	L205	0	0	1	0	0
114	A189	L207	0	0	1	0	0
115	A189	O183	0	0	1	0	0
116	A189	O189	0	1	1	0	0
117	A189	O192	0	0	1	0	0
118	A189	O196	0	0	1	0	0
119	A189	O200	0	0	1	0	0
120	A189	O202	0	0	1	0	0
121	A189	O205	0	0	1	0	0
122	A189	O207	0	0	1	0	0
123	A192	A196	0	0	1	0	1
124	A192	A200	0	0	1	0	1
125	A192	A202	0	0	1	0	1
126	A192	A205	0	0	1	0	1
127	A192	A207	0	0	1	0	1
128	A192	D183	0	0	1	0	0
129	A192	D189	0	0	1	0	0
130	A192	D192	0	1	1	0	0
131	A192	D196	0	0	1	0	0
132	A192	D200	0	0	1	0	0
133	A192	D202	0	0	1	0	0
134	A192	D205	0	0	1	0	0
135	A192	D207	0	0	1	0	0
136	A192	L183	0	0	1	0	0
137	A192	L189	0	0	1	0	0
138	A192	L192	0	1	1	0	0
139	A192	L196	0	0	1	0	0
140	A192	L200	0	0	1	0	0
141	A192	L202	0	0	1	0	0
142	A192	L205	0	0	1	0	0
143	A192	L207	0	0	1	0	0
144	A192	O183	0	0	1	0	0
145	A192	O189	0	0	1	0	0
146	A192	O192	0	1	1	0	0
147	A192	O196	0	0	1	0	0
148	A192	O200	0	0	1	0	0
149	A192	O202	0	0	1	0	0

150	A192	0205	0	0	1	0	0
151	A192	0207	0	0	1	0	0
152	A196	A200	0	0	1	0	1
153	A196	A202	0	0	1	0	1
154	A196	A205	0	0	1	0	1
155	A196	A207	0	0	1	0	1
156	A196	D183	0	0	1	0	0
157	A196	D189	0	0	1	0	0
158	A196	D192	0	0	1	0	0
159	A196	D196	0	1	1	0	0
160	A196	D200	0	0	1	0	0
161	A196	D202	0	0	1	0	0
162	A196	D205	0	0	1	0	0
163	A196	D207	0	0	1	0	0
164	A196	L183	0	0	1	0	0
165	A196	L189	0	0	1	0	0
166	A196	L192	0	0	1	0	0
167	A196	L196	0	1	1	0	0
168	A196	L200	0	0	1	0	0
169	A196	L202	0	0	1	0	0
170	A196	L205	0	0	1	0	0
171	A196	L207	0	0	1	0	0
172	A196	0183	0	0	1	0	0
173	A196	0189	0	0	1	0	0
174	A196	0192	0	0	1	0	0
175	A196	0196	0	1	1	0	0
176	A196	0200	0	0	1	0	0
177	A196	0202	0	0	1	0	0
178	A196	0205	0	0	1	0	0
179	A196	0207	0	0	1	0	0
180	A200	A202	0	0	1	0	1
181	A200	A205	0	0	1	0	1
182	A200	A207	0	0	1	0	1
183	A200	D183	0	0	1	0	0
184	A200	D189	0	0	1	0	0
185	A200	D192	0	0	1	0	0
186	A200	D196	0	0	1	0	0
187	A200	D200	0	1	1	0	0
188	A200	D202	0	0	1	0	0
189	A200	D205	0	0	1	0	0
190	A200	D207	0	0	1	0	0
191	A200	L183	0	0	1	0	0
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193	A200	L192	0	0	1	0	0
194	A200	L196	0	0	1	0	0
195	A200	L200	0	1	1	0	0
196	A200	L202	0	0	1	0	0
197	A200	L205	0	0	1	0	0
198	A200	L207	0	0	1	0	0
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200	A200	0189	0	0	1	0	0
201	A200	0192	0	0	1	0	0
202	A200	0196	0	0	1	0	0
203	A200	0200	0	1	1	0	0

204	A200	0202	0	0	1	0	0
205	A200	0205	0	0	1	0	0
206	A200	0207	0	0	1	0	0
207	A202	A205	0	0	1	0	1
208	A202	A207	0	0	1	0	1
209	A202	D183	0	0	1	0	0
210	A202	D189	0	0	1	0	0
211	A202	D192	0	0	1	0	0
212	A202	D196	0	0	1	0	0
213	A202	D200	0	0	1	0	0
214	A202	D202	0	1	1	0	0
215	A202	D205	0	0	1	0	0
216	A202	D207	0	0	1	0	0
217	A202	L183	0	0	1	0	0
218	A202	L189	0	0	1	0	0
219	A202	L192	0	0	1	0	0
220	A202	L196	0	0	1	0	0
221	A202	L200	0	0	1	0	0
222	A202	L202	0	1	1	0	0
223	A202	L205	0	0	1	0	0
224	A202	L207	0	0	1	0	0
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226	A202	0189	0	0	1	0	0
227	A202	0192	0	0	1	0	0
228	A202	0196	0	0	1	0	0
229	A202	0200	0	0	1	0	0
230	A202	0202	0	1	1	0	0
231	A202	0205	0	0	1	0	0
232	A202	0207	0	0	1	0	0
233	A205	A207	0	0	1	0	1
234	A205	D183	0	0	1	0	0
235	A205	D189	0	0	1	0	0
236	A205	D192	0	0	1	0	0
237	A205	D196	0	0	1	0	0
238	A205	D200	0	0	1	0	0
239	A205	D202	0	0	1	0	0
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242	A205	L183	0	0	1	0	0
243	A205	L189	0	0	1	0	0
244	A205	L192	0	0	1	0	0
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251	A205	0189	0	0	1	0	0
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253	A205	0196	0	0	1	0	0
254	A205	0200	0	0	1	0	0
255	A205	0202	0	0	1	0	0
256	A205	0205	0	1	1	0	0
257	A205	0207	0	0	1	0	0

258	A207	D183	0	0	1	0	0
259	A207	D189	0	0	1	0	0
260	A207	D192	0	0	1	0	0
261	A207	D196	0	0	1	0	0
262	A207	D200	0	0	1	0	0
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267	A207	L189	0	0	1	0	0
268	A207	L192	0	0	1	0	0
269	A207	L196	0	0	1	0	0
270	A207	L200	0	0	1	0	0
271	A207	L202	0	0	1	0	0
272	A207	L205	0	0	1	0	0
273	A207	L207	0	1	1	0	0
274	A207	O183	0	0	1	0	0
275	A207	O189	0	0	1	0	0
276	A207	O192	0	0	1	0	0
277	A207	O196	0	0	1	0	0
278	A207	O200	0	0	1	0	0
279	A207	O202	0	0	1	0	0
280	A207	O205	0	0	1	0	0
281	A207	O207	0	1	1	0	0
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284	D183	D196	0	0	1	0	1
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287	D183	D205	0	0	1	0	1
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289	D183	L183	0	1	1	0	0
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293	D183	L200	0	0	1	0	0
294	D183	L202	0	0	1	0	0
295	D183	L205	0	0	1	0	0
296	D183	L207	0	0	1	0	0
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298	D183	O189	0	0	1	0	0
299	D183	O192	0	0	1	0	0
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302	D183	O202	0	0	1	0	0
303	D183	O205	0	0	1	0	0
304	D183	O207	0	0	1	0	0
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306	D189	D196	0	0	1	0	1
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308	D189	D202	0	0	1	0	1
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310	D189	D207	0	0	1	0	1
311	D189	L183	0	0	1	0	0

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314	D189	L196	0	0	1	0	0
315	D189	L200	0	0	1	0	0
316	D189	L202	0	0	1	0	0
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321	D189	0192	0	0	1	0	0
322	D189	0196	0	0	1	0	0
323	D189	0200	0	0	1	0	0
324	D189	0202	0	0	1	0	0
325	D189	0205	0	0	1	0	0
326	D189	0207	0	0	1	0	0
327	D192	D196	0	0	1	0	1
328	D192	D200	0	0	1	0	1
329	D192	D202	0	0	1	0	1
330	D192	D205	0	0	1	0	1
331	D192	D207	0	0	1	0	1
332	D192	L183	0	0	1	0	0
333	D192	L189	0	0	1	0	0
334	D192	L192	0	1	1	0	0
335	D192	L196	0	0	1	0	0
336	D192	L200	0	0	1	0	0
337	D192	L202	0	0	1	0	0
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342	D192	0192	0	1	1	0	0
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347	D192	0207	0	0	1	0	0
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350	D196	D205	0	0	1	0	1
351	D196	D207	0	0	1	0	1
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354	D196	L192	0	0	1	0	0
355	D196	L196	0	1	1	0	0
356	D196	L200	0	0	1	0	0
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358	D196	L205	0	0	1	0	0
359	D196	L207	0	0	1	0	0
360	D196	0183	0	0	1	0	0
361	D196	0189	0	0	1	0	0
362	D196	0192	0	0	1	0	0
363	D196	0196	0	1	1	0	0
364	D196	0200	0	0	1	0	0
365	D196	0202	0	0	1	0	0

366	D196	0205	0	0	1	0	0
367	D196	0207	0	0	1	0	0
368	D200	D202	0	0	1	0	1
369	D200	D205	0	0	1	0	1
370	D200	D207	0	0	1	0	1
371	D200	L183	0	0	1	0	0
372	D200	L189	0	0	1	0	0
373	D200	L192	0	0	1	0	0
374	D200	L196	0	0	1	0	0
375	D200	L200	0	1	1	0	0
376	D200	L202	0	0	1	0	0
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378	D200	L207	0	0	1	0	0
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380	D200	0189	0	0	1	0	0
381	D200	0192	0	0	1	0	0
382	D200	0196	0	0	1	0	0
383	D200	0200	0	1	1	0	0
384	D200	0202	0	0	1	0	0
385	D200	0205	0	0	1	0	0
386	D200	0207	0	0	1	0	0
387	D202	D205	0	0	1	0	1
388	D202	D207	0	0	1	0	1
389	D202	L183	0	0	1	0	0
390	D202	L189	0	0	1	0	0
391	D202	L192	0	0	1	0	0
392	D202	L196	0	0	1	0	0
393	D202	L200	0	0	1	0	0
394	D202	L202	0	1	1	0	0
395	D202	L205	0	0	1	0	0
396	D202	L207	0	0	1	0	0
397	D202	0183	0	0	1	0	0
398	D202	0189	0	0	1	0	0
399	D202	0192	0	0	1	0	0
400	D202	0196	0	0	1	0	0
401	D202	0200	0	0	1	0	0
402	D202	0202	0	1	1	0	0
403	D202	0205	0	0	1	0	0
404	D202	0207	0	0	1	0	0
405	D205	D207	0	0	1	0	1
406	D205	L183	0	0	1	0	0
407	D205	L189	0	0	1	0	0
408	D205	L192	0	0	1	0	0
409	D205	L196	0	0	1	0	0
410	D205	L200	0	0	1	0	0
411	D205	L202	0	0	1	0	0
412	D205	L205	0	1	1	0	0
413	D205	L207	0	0	1	0	0
414	D205	0183	0	0	1	0	0
415	D205	0189	0	0	1	0	0
416	D205	0192	0	0	1	0	0
417	D205	0196	0	0	1	0	0
418	D205	0200	0	0	1	0	0
419	D205	0202	0	0	1	0	0



420	D205	0205	0	1	1	0	0
421	D205	0207	0	0	1	0	0
422	D207	L183	0	0	1	0	0
423	D207	L189	0	0	1	0	0
424	D207	L192	0	0	1	0	0
425	D207	L196	0	0	1	0	0
426	D207	L200	0	0	1	0	0
427	D207	L202	0	0	1	0	0
428	D207	L205	0	0	1	0	0
429	D207	L207	0	1	1	0	0
430	D207	0183	0	0	1	0	0
431	D207	0189	0	0	1	0	0
432	D207	0192	0	0	1	0	0
433	D207	0196	0	0	1	0	0
434	D207	0200	0	0	1	0	0
435	D207	0202	0	0	1	0	0
436	D207	0205	0	0	1	0	0
437	D207	0207	0	1	1	0	0
438	L183	L189	0	0	1	0	1
439	L183	L192	0	0	1	0	1
440	L183	L196	0	0	1	0	1
441	L183	L200	0	0	1	0	1
442	L183	L202	0	0	1	0	1
443	L183	L205	0	0	1	0	1
444	L183	L207	0	0	1	0	1
445	L183	0183	0	1	1	0	0
446	L183	0189	0	0	1	0	0
447	L183	0192	0	0	1	0	0
448	L183	0196	0	0	1	0	0
449	L183	0200	0	0	1	0	0
450	L183	0202	0	0	1	0	0
451	L183	0205	0	0	1	0	0
452	L183	0207	0	0	1	0	0
453	L189	L192	0	0	1	0	1
454	L189	L196	0	0	1	0	1
455	L189	L200	0	0	1	0	1
456	L189	L202	0	0	1	0	1
457	L189	L205	0	0	1	0	1
458	L189	L207	0	0	1	0	1
459	L189	0183	0	0	1	0	0
460	L189	0189	0	1	1	0	0
461	L189	0192	0	0	1	0	0
462	L189	0196	0	0	1	0	0
463	L189	0200	0	0	1	0	0
464	L189	0202	0	0	1	0	0
465	L189	0205	0	0	1	0	0
466	L189	0207	0	0	1	0	0
467	L192	L196	0	0	1	0	1
468	L192	L200	0	0	1	0	1
469	L192	L202	0	0	1	0	1
470	L192	L205	0	0	1	0	1
471	L192	L207	0	0	1	0	1
472	L192	0183	0	0	1	0	0
473	L192	0189	0	0	1	0	0

474	L192	0192	0	1	1	0	0
475	L192	0196	0	0	1	0	0
476	L192	0200	0	0	1	0	0
477	L192	0202	0	0	1	0	0
478	L192	0205	0	0	1	0	0
479	L192	0207	0	0	1	0	0
480	L196	L200	0	0	1	0	1
481	L196	L202	0	0	1	0	1
482	L196	L205	0	0	1	0	1
483	L196	L207	0	0	1	0	1
484	L196	0183	0	0	1	0	0
485	L196	0189	0	0	1	0	0
486	L196	0192	0	0	1	0	0
487	L196	0196	0	1	1	0	0
488	L196	0200	0	0	1	0	0
489	L196	0202	0	0	1	0	0
490	L196	0205	0	0	1	0	0
491	L196	0207	0	0	1	0	0
492	L200	L202	0	0	1	0	1
493	L200	L205	0	0	1	0	1
494	L200	L207	0	0	1	0	1
495	L200	0183	0	0	1	0	0
496	L200	0189	0	0	1	0	0
497	L200	0192	0	0	1	0	0
498	L200	0196	0	0	1	0	0
499	L200	0200	0	1	1	0	0
500	L200	0202	0	0	1	0	0
501	L200	0205	0	0	1	0	0
502	L200	0207	0	0	1	0	0
503	L202	L205	0	0	1	0	1
504	L202	L207	0	0	1	0	1
505	L202	0183	0	0	1	0	0
506	L202	0189	0	0	1	0	0
507	L202	0192	0	0	1	0	0
508	L202	0196	0	0	1	0	0
509	L202	0200	0	0	1	0	0
510	L202	0202	0	1	1	0	0
511	L202	0205	0	0	1	0	0
512	L202	0207	0	0	1	0	0
513	L205	L207	0	0	1	0	1
514	L205	0183	0	0	1	0	0
515	L205	0189	0	0	1	0	0
516	L205	0192	0	0	1	0	0
517	L205	0196	0	0	1	0	0
518	L205	0200	0	0	1	0	0
519	L205	0202	0	0	1	0	0
520	L205	0205	0	1	1	0	0
521	L205	0207	0	0	1	0	0
522	L207	0183	0	0	1	0	0
523	L207	0189	0	0	1	0	0
524	L207	0192	0	0	1	0	0
525	L207	0196	0	0	1	0	0
526	L207	0200	0	0	1	0	0
527	L207	0202	0	0	1	0	0

528	L207	0205	0	0	1	0	0
529	L207	0207	0	1	1	0	0
530	0183	0189	0	0	1	0	1
531	0183	0192	0	0	1	0	1
532	0183	0196	0	0	1	0	1
533	0183	0200	0	0	1	0	1
534	0183	0202	0	0	1	0	1
535	0183	0205	0	0	1	0	1
536	0183	0207	0	0	1	0	1
537	0189	0192	0	0	1	0	1
538	0189	0196	0	0	1	0	1
539	0189	0200	0	0	1	0	1
540	0189	0202	0	0	1	0	1
541	0189	0205	0	0	1	0	1
542	0189	0207	0	0	1	0	1
543	0192	0196	0	0	1	0	1
544	0192	0200	0	0	1	0	1
545	0192	0202	0	0	1	0	1
546	0192	0205	0	0	1	0	1
547	0192	0207	0	0	1	0	1
548	0196	0200	0	0	1	0	1
549	0196	0202	0	0	1	0	1
550	0196	0205	0	0	1	0	1
551	0196	0207	0	0	1	0	1
552	0200	0202	0	0	1	0	1
553	0200	0205	0	0	1	0	1
554	0200	0207	0	0	1	0	1
555	0202	0205	0	0	1	0	1
556	0202	0207	0	0	1	0	1
557	0205	0207	0	0	1	0	1

Input data file: `sww.bfin`.