1 Nominal correlations.

Measurements		CVW183/%	CVW189/%	CVW192/%	CVW196/%	CVW200/%	CVW202/%	CVW205/%	CVW207/%	Stat	LCEU	LCEC	LUEU	LUEC
A183	15.57 ± 0.68	25.58	-0.58	-0.36	-0.42	-0.40	-0.50	-0.47	-0.40	0.62	0	0.09	0.09	0.26
D183	15.86 ± 0.74	22.26	0.04	0.29	0.16	0.09	0.09	0.19	0.06	0.69	0	0.09	0.07	0.23
L183	16.53 ± 0.72	23.49	0.30	0.50	0.46	0.56	0.67	0.60	0.57	0.67	0	0.08	0.14	0.20
O183	15.43 ± 0.66	28.68	0.25	-0.42	-0.20	-0.25	-0.27	-0.31	-0.24	0.61	0	0.14	0	0.22
BLUE 183	15.79 ± 0.36	100.00	0	0	0	0	0	0	0	0.32	0	0.10	0.04	0.11

Measurements		CVW183/%	CVW189/%	CVW192/%	CVW196/%	CVW200/%	CVW202/%	CVW205/%	CVW207/%	Stat	LCEU	LCEC	LUEU	LUEC
A189	15.71 ± 0.38	-0.86	26.72	1.11	0.98	0.95	0.80	0.80	0.94	0.34	0	0.05	0.09	0.15
D189	15.83 ± 0.43	-1.39	21.33	-0.65	-0.93	-1.07	-1.18	-0.79	-1.06	0.38	0	0.07	0.05	0.18
L189	16.24 ± 0.43	0.16	22.12	-0.69	-0.80	-0.43	-0.18	-0.30	-0.36	0.37	0	0.04	0.08	0.20
O189	16.30 ± 0.38	2.09	29.83	0.23	0.76	0.55	0.56	0.30	0.48	0.34	0	0.07	0	0.17
BLUE 189	16.00 ± 0.21	0	100.00	0	0	0	0	0	0	0.18	0	0.05	0.03	0.08

Measurements		CVW183/%	CVW189/%	CVW192/%	CVW196/%	CVW200/%	CVW202/%	CVW205/%	CVW207/%	Stat	LCEU	LCEC	LUEU	LUEC
A192	17.23 ± 0.91	0.47	0.45	27.07	0.77	0.75	0.75	0.73	0.74	0.89	0	0.05	0.09	0.15
D192	16.90 ± 1.02	0.18	0.12	21.25	0.26	0.22	0.22	0.27	0.22	1.00	0	0.07	0.06	0.20
L192	16.39 ± 0.93	0.14	-0.01	25.85	0.09	0.17	0.21	0.21	0.19	0.90	0	0.08	0.08	0.21
O192	16.60 ± 0.97	-0.79	-0.56	25.83	-1.11	-1.14	-1.18	-1.21	-1.14	0.88	0	0.12	0	0.40
BLUE 192	16.72 ± 0.48	0	0	100.00	0	0	0	0	0	0.46	0	0.07	0.04	0.10

Measurements		CVW183/%	CVW189/%	CVW192/%	CVW196/%	CVW200/%	CVW202/%	CVW205/%	CVW207/%	Stat	LCEU	LCEC	LUEU	LUEC
A196	17.00 ± 0.57	1.17	1.15	2.03	29.30	1.87	1.86	1.80	1.83	0.54	0	0.05	0.09	0.15
D196	17.86 ± 0.63	0.43	0.28	0.80	23.94	0.52	0.52	0.65	0.51	0.59	0	0.07	0.06	0.20
L196	16.67 ± 0.60	0.29	-0.10	0.22	26.61	0.31	0.42	0.40	0.37	0.55	0	0.08	0.08	0.21
O196	18.59 ± 0.74	-1.89	-1.33	-3.06	20.15	-2.70	-2.79	-2.86	-2.71	0.60	0	0.12	0	0.41
BLUE 196	17.43 ± 0.32	0	0	0	100.00	0	0	0	0	0.29	0	0.07	0.04	0.10

Measurements		CVW183/%	CVW189/%	CVW192/%	CVW196/%	CVW200/%	CVW202/%	CVW205/%	CVW207/%	Stat	LCEU	LCEC	LUEU	LUEC
A200	16.98 ± 0.56	0.98	1.03	1.92	1.79	28.27	1.74	1.70	1.73	0.53	0	0.05	0.09	0.15
D200	17.35 ± 0.60	0.26	0.17	0.72	0.51	24.56	0.41	0.57	0.41	0.56	0	0.07	0.06	0.20
L200	16.94 ± 0.62	0.07	-0.23	0.04	-0.06	23.20	0.23	0.23	0.19	0.57	0	0.08	0.08	0.21
O200	16.32 ± 0.66	-1.32	-0.98	-2.67	-2.23	23.96	-2.38	-2.49	-2.34	0.54	0	0.10	0	0.37
BLUE 200	16.84 ± 0.31	0	0	0	0	100.00	0	0	0	0.28	0	0.07	0.04	0.10

Measurements		CVW183/%	CVW189/%	CVW192/%	CVW196/%	CVW200/%	CVW202/%	CVW205/%	CVW207/%	Stat	LCEU	LCEC	LUEU	LUEC
A202	16.16 ± 0.76	0.67	0.63	1.12	1.05	1.04	30.03	1.00	1.02	0.74	0	0.05	0.09	0.15
D202	17.67 ± 0.84	0.06	0.04	0.29	0.19	0.15	24.54	0.23	0.15	0.81	0	0.08	0.07	0.21
L202	16.95 ± 0.88	0.15	-0.03	0.11	0.07	0.15	22.28	0.20	0.18	0.85	0	0.08	0.08	0.21
O202	18.48 ± 0.91	-0.88	-0.64	-1.53	-1.31	-1.34	23.16	-1.43	-1.35	0.81	0	0.12	0	0.40
BLUE 202	17.23 ± 0.42	0	0	0	0	0	100.00	0	0	0.40	0	0.07	0.04	0.10

LEP Combination for the Summer 2001 Conferences (http://lepewwg.web.cern.ch/LEPEWWG/lepww/4f/Summer01). The output results may differ because of rounding errors.

Measurements		CVW183/%	CVW189/%	CVW192/%	CVW196/%	CVW200/%	CVW202/%	CVW205/%	CVW207/%	Stat	LCEU	LCEC	LUEU	LUEC
A205	16.57 ± 0.55	0.93	1.01	1.94	1.80	1.77	1.76	29.66	1.75	0.52	0	0.05	0.09	0.15
D205	17.44 ± 0.64	0.35	0.19	0.72	0.52	0.44	0.44	22.00	0.43	0.60	0	0.06	0.05	0.20
L205	17.35 ± 0.64	∼ 0	-0.26	∼ 0	-0.10	0.08	0.17	22.07	0.15	0.59	0	0.08	0.08	0.21
O205	15.97 ± 0.64	-1.28	-0.95	-2.67	-2.22	-2.30	-2.37	26.27	-2.33	0.52	0	0.10	0	0.36
BLUE 205	16.71 ± 0.31	0	0	0	0	0	0	100.00	0	0.28	0	0.06	0.03	0.10

Measurements		CVW183/%	CVW189/%	CVW192/%	CVW196/%	CVW200/%	CVW202/%	CVW205/%	CVW207/%	Stat	LCEU	LCEC	LUEU	LUEC
A207	17.32 ± 0.45	1.35	1.54	2.95	2.73	2.70	2.66	2.61	29.14	0.41	0	0.05	0.09	0.15
D207	16.50 ± 0.48	0.86	0.54	1.54	1.19	1.03	1.04	1.28	25.87	0.43	0	0.06	0.05	0.20
L207	17.96 ± 0.51	-0.11	-0.49	-0.11	-0.27	0.05	0.20	0.21	22.40	0.45	0	0.08	0.08	0.21
O207	17.77 ± 0.57	-2.10	-1.59	-4.38	-3.65	-3.78	-3.90	-4.10	22.58	0.42	0	0.09	0	0.37
BLUE 207	17.33 ± 0.25	0	0	0	0	0	0	0	100.00	0.22	0	0.06	0.03	0.10

Table 1: BLUE's of the combination (χ^2/ndof= 27.42/24). Values /1k are displayed. For each input measurement i, the central value weight CVW or λ_i^α with which that measurement contributes to the BLUE for observable α 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	0.47	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
A189	0.04	0.15	0.02	0.02	0.02	0.02	0.02	0.02	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	0.01	0.01	∼0	0.01	∼0	∼0
A192	0.04	0.02	0.82	0.02	0.02	0.02	0.02	0.02	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	0.01	0.01	∼0	0.01	∼0	∼0
A196	0.04	0.02	0.02	0.32	0.02	0.02	0.02	0.02	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	0.01	0.01	∼0	0.01	∼0	∼0
A200	0.04	0.02	0.02	0.02	0.31	0.02	0.02	0.02	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	0.01	0.01	∼0	0.01	∼0	∼0
A202	0.04	0.02	0.02	0.02	0.02	0.58	0.02	0.02	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	0.01	0.01	∼0	0.01	∼0	∼0
A205	0.04	0.02	0.02	0.02	0.02	0.02	0.30	0.02	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	0.01	0.01	∼0	0.01	∼0	∼0
A207	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.20	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	0.01	0.01	∼0	0.01	∼0	∼0
D183	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.54	0.05	0.05	0.05	0.05	0.06	0.05	0.05	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D189	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.05	0.18	0.04	0.04	0.04	0.04	0.04	0.04	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01
D192	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.05	0.04	1.05	0.04	0.04	0.05	0.05	0.04	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01
D196	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.05	0.04	0.04	0.40	0.04	0.05	0.05	0.04	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01
D200	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.05	0.04	0.04	0.04	0.36	0.05	0.05	0.04	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01
D202	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.06	0.04	0.05	0.05	0.05	0.71	0.05	0.04	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D205	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.05	0.04	0.05	0.05	0.05	0.05	0.41	0.04	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01
D207	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.23	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01
L183	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	∼0	∼0	0.52	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
L189	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.04	0.19	0.05	0.05	0.05	0.05	0.05	0.05	0.01	∼0	0.01	0.01	∼0	0.01	∼0	∼0
L192	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	∼0	∼0	0.05	0.05	0.87	0.05	0.05	0.05	0.05	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
L196	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	∼0	∼0	0.05	0.05	0.05	0.36	0.05	0.05	0.05	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
L200	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	∼0	∼0	0.05	0.05	0.05	0.05	0.38	0.05	0.05	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
L202	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	∼0	∼0	0.05	0.05	0.05	0.05	0.05	0.78	0.05	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
L205	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	∼0	∼0	0.05	0.05	0.05	0.05	0.05	0.05	0.41	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
L207	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	∼0	∼0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.26	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
O183	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.44	0.05	0.10	0.11	0.09	0.10	0.09	0.09
O189	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	∼0	∼0	∼0	0.01	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.15	0.08	0.08	0.07	0.08	0.07	0.07
O192	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	0.08	0.95	0.18	0.16	0.18	0.16	0.16
O196	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.11	0.08	0.18	0.54	0.16	0.18	0.16	0.16
O200	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.09	0.07	0.16	0.16	0.44	0.16	0.14	0.14
O202	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	0.08	0.18	0.18	0.16	0.83	0.16	0.16
O205	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.09	0.07	0.16	0.16	0.14	0.16	0.41	0.14
O207	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.09	0.07	0.16	0.16	0.14	0.16	0.14	0.32

Table 3: Full input covariance between measurements (summed over error sources). Values /1M 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	0.38	0	0	0	0	0	0	0	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	0.12	0	0	0	0	0	0	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	0.29	0	0	0	0	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	0.28	0	0	0	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	0.55	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
A205	0	0	0	0	0	0	0.27	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	0.17	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	0.48	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	0.14	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	1.00	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	0.35	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	0.31	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	0.66	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	0.18	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	0.45	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	0.14	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	0.81	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	0.30	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	0.32	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	0.72	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	0.35	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	0.20	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	0.37	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	0.12	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	0.77	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	0.36	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	0.29	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	0.66	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	0.27	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	0.18

Table 4: Partial input covariance between measurements. Error source #0: Stat. Values /1M 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 /1M 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	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
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	0.01	∼0	0.01	0.01	∼0	0.01	∼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	0.01	∼0	0.01	0.01	∼0	0.01	∼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	0.01	∼0	0.01	0.01	∼0	0.01	∼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	0.01	∼0	0.01	0.01	∼0	0.01	∼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	0.01	∼0	0.01	0.01	∼0	0.01	∼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	0.01	∼0	0.01	0.01	∼0	0.01	∼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	0.01	∼0	0.01	0.01	∼0	0.01	∼0	∼0
D183	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D189	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	∼0	∼0	∼0	0.01	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01
D192	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	∼0	∼0	∼0	0.01	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01
D196	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	∼0	∼0	∼0	0.01	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01
D200	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	∼0	∼0	∼0	0.01	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01
D202	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D205	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01
D207	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01
L183	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
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	0.01	∼0	0.01	0.01	∼0	0.01	∼0	∼0
L192	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
L196	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
L200	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
L202	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
L205	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
L207	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
O183	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.02	0.01	0.02	0.01	0.01
O189	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	∼0	∼0	∼0	∼0	0.01	∼0	∼0	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01
O192	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
O196	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
O200	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
O202	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
O205	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
O207	0.01	∼0	∼0	∼0	∼0	∼0	∼0	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	∼0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Table 6: Partial input covariance between measurements. Error source #2: LCEC. Values /1M 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	0.01	0	0	0	0	0	0	0	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	0.01	0	0	0	0	0	0	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	0.01	0	0	0	0	0	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	0.01	0	0	0	0	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	0.01	0	0	0	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	0.01	0	0	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	0.01	0	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	0.01	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	0.02	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	0.01	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	0.01	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	0.01	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	0.01	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	0.01	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	0.01	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	0.01	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	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 /1M 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	0.07	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A189	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	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	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	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	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	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	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	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	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	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	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	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	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	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	0.06	0.04	0.05	0.05	0.05	0.05	0.05	0.05	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	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	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	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	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	0.05	0.04	0.09	0.09	0.08	0.09	0.08	0.08
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	0.04	0.03	0.07	0.07	0.06	0.07	0.06	0.06
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	0.09	0.07	0.16	0.17	0.15	0.16	0.14	0.15
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	0.09	0.07	0.17	0.17	0.15	0.17	0.15	0.15
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	0.08	0.06	0.15	0.15	0.13	0.15	0.13	0.14
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	0.09	0.07	0.16	0.17	0.15	0.16	0.14	0.15
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	0.08	0.06	0.14	0.15	0.13	0.14	0.13	0.13
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	0.08	0.06	0.15	0.15	0.14	0.15	0.13	0.14

Table 8: Partial input covariance between measurements. Error source #4: LUEC. Values /1M are displayed.

2 Modified correlations.

2.1 Zero correlations.

Measurements		CVW183/%	CVW189/%	CVW192/%	CVW196/%	CVW200/%	CVW202/%	CVW205/%	CVW207/%	Stat	LCEU	LCEC	LUEU	LUEC
A183	15.57 ± 0.68	26.14	0	0	0	0	0	0	0	0.62	0	0.09	0.09	0.26
D183	15.86 ± 0.74	22.48	0	0	0	0	0	0	0	0.69	0	0.09	0.07	0.23
L183	16.53 ± 0.72	23.63	0	0	0	0	0	0	0	0.67	0	0.08	0.14	0.20
O183	15.43 ± 0.66	27.75	0	0	0	0	0	0	0	0.61	0	0.14	0	0.22
BLUE 183	15.82 ± 0.35	100.00	0	0	0	0	0	0	0	0.32	0	0.05	0.04	0.12

Measurements		CVW183/%	CVW189/%	CVW192/%	CVW196/%	CVW200/%	CVW202/%	CVW205/%	CVW207/%	Stat	LCEU	LCEC	LUEU	LUEC
A189	15.71 ± 0.38	0	27.79	0	0	0	0	0	0	0.34	0	0.05	0.09	0.15
D189	15.83 ± 0.43	0	22.27	0	0	0	0	0	0	0.38	0	0.07	0.05	0.18
L189	16.24 ± 0.43	0	22.17	0	0	0	0	0	0	0.37	0	0.04	0.08	0.20
O189	16.30 ± 0.38	0	27.77	0	0	0	0	0	0	0.34	0	0.07	0	0.17
BLUE 189	16.02 ± 0.20	0	100.00	0	0	0	0	0	0	0.18	0	0.03	0.03	0.09

Measurements		CVW183/%	CVW189/%	CVW192/%	CVW196/%	CVW200/%	CVW202/%	CVW205/%	CVW207/%	Stat	LCEU	LCEC	LUEU	LUEC
A192	17.23 ± 0.91	0	0	27.75	0	0	0	0	0	0.89	0	0.05	0.09	0.15
D192	16.90 ± 1.02	0	0	21.82	0	0	0	0	0	1.00	0	0.07	0.06	0.20
L192	16.39 ± 0.93	0	0	26.37	0	0	0	0	0	0.90	0	0.08	0.08	0.21
O192	16.60 ± 0.97	0	0	24.07	0	0	0	0	0	0.88	0	0.12	0	0.40
BLUE 192	16.78 ± 0.48	0	0	100.00	0	0	0	0	0	0.46	0	0.04	0.04	0.13

Measurements		CVW183/%	CVW189/%	CVW192/%	CVW196/%	CVW200/%	CVW202/%	CVW205/%	CVW207/%	Stat	LCEU	LCEC	LUEU	LUEC
A196	17.00 ± 0.57	0	0	0	30.20	0	0	0	0	0.54	0	0.05	0.09	0.15
D196	17.86 ± 0.63	0	0	0	24.67	0	0	0	0	0.59	0	0.07	0.06	0.20
L196	16.67 ± 0.60	0	0	0	27.17	0	0	0	0	0.55	0	0.08	0.08	0.21
O196	18.59 ± 0.74	0	0	0	17.95	0	0	0	0	0.60	0	0.12	0	0.41
BLUE 196	17.41 ± 0.31	0	0	0	100.00	0	0	0	0	0.29	0	0.04	0.04	0.11

Measurements		CVW183/%	CVW189/%	CVW192/%	CVW196/%	CVW200/%	CVW202/%	CVW205/%	CVW207/%	Stat	LCEU	LCEC	LUEU	LUEC
A200	16.98 ± 0.56	0	0	0	0	29.39	0	0	0	0.53	0	0.05	0.09	0.15
D200	17.35 ± 0.60	0	0	0	0	25.42	0	0	0	0.56	0	0.07	0.06	0.20
L200	16.94 ± 0.62	0	0	0	0	24.07	0	0	0	0.57	0	0.08	0.08	0.21
O200	16.32 ± 0.66	0	0	0	0	21.11	0	0	0	0.54	0	0.10	0	0.37
BLUE 200	16.93 ± 0.30	0	0	0	0	100.00	0	0	0	0.28	0	0.04	0.04	0.11

Measurements		CVW183/%	CVW189/%	CVW192/%	CVW196/%	CVW200/%	CVW202/%	CVW205/%	CVW207/%	Stat	LCEU	LCEC	LUEU	LUEC
A202	16.16 ± 0.76	0	0	0	0	0	30.70	0	0	0.74	0	0.05	0.09	0.15
D202	17.67 ± 0.84	0	0	0	0	0	25.10	0	0	0.81	0	0.08	0.07	0.21
L202	16.95 ± 0.88	0	0	0	0	0	22.82	0	0	0.85	0	0.08	0.08	0.21
O202	18.48 ± 0.91	0	0	0	0	0	21.38	0	0	0.81	0	0.12	0	0.40
BLUE 202	17.22 ± 0.42	0	0	0	0	0	100.00	0	0	0.40	0	0.04	0.04	0.12

LEP Combination for the Summer 2001 Conferences (http://lepewwg.web.cern.ch/LEPEWWG/lepww/4f/Summer01). The output results may differ because of rounding errors.

Measurements		CVW183/%	CVW189/%	CVW192/%	CVW196/%	CVW200/%	CVW202/%	CVW205/%	CVW207/%	Stat	LCEU	LCEC	LUEU	LUEC
A205	16.57 ± 0.55	0	0	0	0	0	0	30.95	0	0.52	0	0.05	0.09	0.15
D205	17.44 ± 0.64	0	0	0	0	0	0	22.93	0	0.60	0	0.06	0.05	0.20
L205	17.35 ± 0.64	0	0	0	0	0	0	23.10	0	0.59	0	0.08	0.08	0.21
O205	15.97 ± 0.64	0	0	0	0	0	0	23.02	0	0.52	0	0.10	0	0.36
BLUE 205	16.81 ± 0.31	0	0	0	0	0	0	100.00	0	0.28	0	0.04	0.04	0.12

Measurements		CVW183/%	CVW189/%	CVW192/%	CVW196/%	CVW200/%	CVW202/%	CVW205/%	CVW207/%	Stat	LCEU	LCEC	LUEU	LUEC
A207	17.32 ± 0.45	0	0	0	0	0	0	0	30.58	0.41	0	0.05	0.09	0.15
D207	16.50 ± 0.48	0	0	0	0	0	0	0	26.76	0.43	0	0.06	0.05	0.20
L207	17.96 ± 0.51	0	0	0	0	0	0	0	23.57	0.45	0	0.08	0.08	0.21
O207	17.77 ± 0.57	0	0	0	0	0	0	0	19.09	0.42	0	0.09	0	0.37
BLUE 207	17.34 ± 0.25	0	0	0	0	0	0	0	100.00	0.22	0	0.03	0.04	0.11

Table 9: BLUE's of the combination (χ^2/ndof= 22.98/24). Values /1k are displayed. For each input measurement i, the central value weight CVW or λ_i^α with which that measurement contributes to the BLUE for observable α is listed.

	183	189	192	196	200	202	205	207
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

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	0.47	0	0	0	0	0	0	0	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	0.15	0	0	0	0	0	0	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	0.82	0	0	0	0	0	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	0.32	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	0
A200	0	0	0	0	0.31	0	0	0	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	0.58	0	0	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	0.30	0	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	0.20	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	0.54	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	0.18	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	1.05	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	0.40	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	0.71	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	0.41	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	0.23	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	0.52	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	0.87	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	0.36	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	0.38	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	0.78	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	0.41	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	0.26	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	0.44	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	0.15	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	0.95	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	0.54	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	0.44	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	0.83	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	0.41	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	0.32

Table 11: Full input covariance between measurements (summed over error sources). Values /1M 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	0.38	0	0	0	0	0	0	0	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	0.12	0	0	0	0	0	0	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	0.29	0	0	0	0	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	0.28	0	0	0	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	0.55	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
A205	0	0	0	0	0	0	0.27	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	0.17	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	0.48	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	0.14	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	1.00	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	0.35	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	0.31	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	0.66	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	0.18	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	0.45	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	0.14	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	0.81	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	0.30	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	0.32	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	0.72	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	0.35	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	0.20	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	0.37	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	0.12	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	0.77	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	0.36	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	0.29	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	0.66	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	0.27	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	0.18

Table 12: Partial input covariance between measurements. Error source #0: Stat. Values /1M 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 /1M 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	0.01	0	0	0	0	0	0	0	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	0.01	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	0.01	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	0.01	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	0.01	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	0.01	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	0.01	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	0.01	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	0.01	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	0.01	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	0.02	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	0.01	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	0.01	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	0.01	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	0.01	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	0.01	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	0.01

Table 14: Partial input covariance between measurements. Error source #2: LCEC. Values /1M 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	0.01	0	0	0	0	0	0	0	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	0.01	0	0	0	0	0	0	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	0.01	0	0	0	0	0	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	0.01	0	0	0	0	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	0.01	0	0	0	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	0.01	0	0	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	0.01	0	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	0.01	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	0.02	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	0.01	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	0.01	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	0.01	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	0.01	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	0.01	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	0.01	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	0.01	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	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 /1M 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	0.07	0	0	0	0	0	0	0	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	0.02	0	0	0	0	0	0	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	0.02	0	0	0	0	0	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	0.02	0	0	0	0	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	0.02	0	0	0	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	0.02	0	0	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	0.02	0	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	0.02	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	0.06	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	0.03	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	0.04	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	0.04	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	0.04	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	0.04	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	0.04	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	0.04	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	0.04	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	0.04	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	0.04	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	0.04	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	0.04	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	0.04	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	0.04	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	0.04	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	0.05	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	0.03	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	0.16	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	0.17	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	0.13	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	0.16	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	0.13	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	0.14

Table 16: Partial input covariance between measurements. Error source #4: LUEC. Values /1M are displayed.

Appendix A1. Input data.

```
#============================================================================
#==== BlueFin input data file ================================================
#============================================================================

# The file is expected to have the following format.
# Blank lines and lines with only empty spaces are ignored.
# Lines starting by '#' are reserved for comments and are ignored.
# Data lines are composed of fields separated by one or more empty spaces.
# Fields cannot contain empty spaces, with the exception of the title line.

# The next line must have 2 fields: 'TITLE' and the title of the
# BlueFin combination, which must be enclosed within double quotes
# and may contain only alphanumeric characters or spaces or hyphens.
TITLE "LEP2 WW cross sections"

# The next line must have 2 fields: 'NOBS' and the number of observables.
NOBS 8

# The next line must have 2 fields: 'NMEA' and the number of measurements.
NMEA 32

# The next line must have 2 fields: 'NERR' and the number of error sources.
NERR 5

# The next NERR+3 lines must have NMEA+1 fields in this format:
# - in the 1st line: 'MEANAME' followed by NMEA distinct measurement names
#   (measurement names may contain only alphanumeric characters or spaces);
# - in the 2nd line: 'OBSNAME' followed by the NMEA names (with NOBS distinct
#   values) of the observables measured by the corresponding measurements
#   (observable names may contain only alphanumeric characters or spaces
#   and should preferably be at most 3 characters long);
# - in the 3rd line: 'MEAVAL' followed by the NMEA measured central values;
# - in each of the last NERR lines: the error source name followed by the
#   NMEA partial errors for each measurement due to the given error source
#   (error source names may contain only alphanumeric characters or spaces).
# === From echo `cat sww.in | egrep '\+(A|D|L|O)' | awk '{print substr($1,2,1)$2}'` | sed 's| |  |g'
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  O183  O189
    O192  O196  O200  O202  O205  O207
# === From echo `cat sww.in | egrep '\+(A|D|L|O)' | awk '{print "C"$2}'` | sed 's| |  |g'
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   183   189
      192   196   200   202   205   207
# === From echo `cat sww.in | egrep '\+(A|D|L|O)' | awk '{print $3}'`
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 15430 16300
    16600 18590 16320 18480 15970 17770
# === From echo `cat sww.in | egrep '\+(A|D|L|O)' | awk '{print $4}'` | sed 's| |   |g'
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   610   340
      880   600   540   810   520   420
# === From echo `cat sww.in | egrep '\+(A|D|L|O)' | awk '{print $7}'` | sed 's| |     |g'
LCEU        0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0
        0     0     0     0     0     0
# === From echo `cat sww.in | egrep '\+(A|D|L|O)' | awk '{print $8}'` | sed 's| |    |g'
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
# === From echo `cat sww.in | egrep '\+(A|D|L|O)' | awk '{print $9}'` | sed 's| |    |g'
```

```
LUEU       93    89    89    89    89    89    89    89    65    50    60    60    60    65    54    50   138    76    84    84    84    84    84    84     0     0
        0     0     0     0     0     0
# === From echo `cat sww.in | egrep '\+(A|D|L|O)' | awk '{print $10}'` | sed 's| |   |g'
LUEC      256   148   148   148   148   148   148   148   235   181   200   200   200   206   205   195   205   202   210   210   210   210   210   210   219   168
      402   413   367   404   357   369

# The next NMEA*(NMEA-1)/2+1 rows must have NERR+2 fields in this format:
# - in the 1st line: 'CMEA1' 'CMEA2' (correlations between 2 measurements)
#   followed by the NERR error source names in the same order used above;
# - in each of the NMEA*(NMEA-1)/2 last lines: the names of two distinct
#   measurements followed by the NERR correlations between the partial
#   errors on the two measurements due to corresponding error source.
#   Measurements must appear in the same order listed above.
# === 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
CMEA1 CMEA2 Stat LCEU LCEC LUEU LUEC
A183   A189    0    0    1    0    1
A183   A192    0    0    1    0    1
A183   A196    0    0    1    0    1
A183   A200    0    0    1    0    1
A183   A202    0    0    1    0    1
A183   A205    0    0    1    0    1
A183   A207    0    0    1    0    1
A183   D183    0    1    1    0    0
A183   D189    0    0    1    0    0
A183   D192    0    0    1    0    0
A183   D196    0    0    1    0    0
A183   D200    0    0    1    0    0
A183   D202    0    0    1    0    0
A183   D205    0    0    1    0    0
A183   D207    0    0    1    0    0
A183   L183    0    1    1    0    0
A183   L189    0    0    1    0    0
A183   L192    0    0    1    0    0
A183   L196    0    0    1    0    0
A183   L200    0    0    1    0    0
A183   L202    0    0    1    0    0
A183   L205    0    0    1    0    0
A183   L207    0    0    1    0    0
A183   O183    0    1    1    0    0
A183   O189    0    0    1    0    0
A183   O192    0    0    1    0    0
A183   O196    0    0    1    0    0
A183   O200    0    0    1    0    0
A183   O202    0    0    1    0    0
A183   O205    0    0    1    0    0
A183   O207    0    0    1    0    0
A189   A192    0    0    1    0    1
A189   A196    0    0    1    0    1
A189   A200    0    0    1    0    1
A189   A202    0    0    1    0    1
A189   A205    0    0    1    0    1
A189   A207    0    0    1    0    1
A189   D183    0    0    1    0    0
A189   D189    0    1    1    0    0
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   O205    0    0    1    0    0
151 A192   O207    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   O183    0    0    1    0    0
173 A196   O189    0    0    1    0    0
174 A196   O192    0    0    1    0    0
175 A196   O196    0    1    1    0    0
176 A196   O200    0    0    1    0    0
177 A196   O202    0    0    1    0    0
178 A196   O205    0    0    1    0    0
179 A196   O207    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
192 A200   L189    0    0    1    0    0
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
199 A200   O183    0    0    1    0    0
200 A200   O189    0    0    1    0    0
201 A200   O192    0    0    1    0    0
202 A200   O196    0    0    1    0    0
203 A200   O200    0    1    1    0    0
204 A200   O202    0    0    1    0    0
205 A200   O205    0    0    1    0    0
206 A200   O207    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
225 A202   O183    0    0    1    0    0
226 A202   O189    0    0    1    0    0
227 A202   O192    0    0    1    0    0
228 A202   O196    0    0    1    0    0
229 A202   O200    0    0    1    0    0
230 A202   O202    0    1    1    0    0
231 A202   O205    0    0    1    0    0
232 A202   O207    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
240 A205   D205    0    1    1    0    0
241 A205   D207    0    0    1    0    0
242 A205   L183    0    0    1    0    0
243 A205   L189    0    0    1    0    0
244 A205   L192    0    0    1    0    0
245 A205   L196    0    0    1    0    0
246 A205   L200    0    0    1    0    0
247 A205   L202    0    0    1    0    0
248 A205   L205    0    1    1    0    0
249 A205   L207    0    0    1    0    0
250 A205   O183    0    0    1    0    0
251 A205   O189    0    0    1    0    0
252 A205   O192    0    0    1    0    0
253 A205   O196    0    0    1    0    0
254 A205   O200    0    0    1    0    0
255 A205   O202    0    0    1    0    0
256 A205   O205    0    1    1    0    0
257 A205   O207    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
263 A207   D202    0    0    1    0    0
264 A207   D205    0    0    1    0    0
265 A207   D207    0    1    1    0    0
266 A207   L183    0    0    1    0    0
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
282 D183   D189    0    0    1    0    1
283 D183   D192    0    0    1    0    1
284 D183   D196    0    0    1    0    1
285 D183   D200    0    0    1    0    1
286 D183   D202    0    0    1    0    1
287 D183   D205    0    0    1    0    1
288 D183   D207    0    0    1    0    1
289 D183   L183    0    1    1    0    0
290 D183   L189    0    0    1    0    0
291 D183   L192    0    0    1    0    0
292 D183   L196    0    0    1    0    0
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
297 D183   O183    0    1    1    0    0
298 D183   O189    0    0    1    0    0
299 D183   O192    0    0    1    0    0
300 D183   O196    0    0    1    0    0
301 D183   O200    0    0    1    0    0
302 D183   O202    0    0    1    0    0
303 D183   O205    0    0    1    0    0
304 D183   O207    0    0    1    0    0
305 D189   D192    0    0    1    0    1
306 D189   D196    0    0    1    0    1
307 D189   D200    0    0    1    0    1
308 D189   D202    0    0    1    0    1
309 D189   D205    0    0    1    0    1
310 D189   D207    0    0    1    0    1
311 D189   L183    0    0    1    0    0
312 D189   L189    0    1    1    0    0
313 D189   L192    0    0    1    0    0
314 D189   L196    0    0    1    0    0
315 D189   L200    0    0    1    0    0
316 D189   L202    0    0    1    0    0
317 D189   L205    0    0    1    0    0
318 D189   L207    0    0    1    0    0
319 D189   O183    0    0    1    0    0
320 D189   O189    0    1    1    0    0
321 D189   O192    0    0    1    0    0
322 D189   O196    0    0    1    0    0
323 D189   O200    0    0    1    0    0
324 D189   O202    0    0    1    0    0
325 D189   O205    0    0    1    0    0
326 D189   O207    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
```

LEP Combination for the Summer 2001 Conferences (http://lepewwg.web.cern.ch/LEPEWWG/lepww/4f/Summer01). The output results may differ because of rounding errors.

```
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
338 D192   L205    0    0    1    0    0
339 D192   L207    0    0    1    0    0
340 D192   O183    0    0    1    0    0
341 D192   O189    0    0    1    0    0
342 D192   O192    0    1    1    0    0
343 D192   O196    0    0    1    0    0
344 D192   O200    0    0    1    0    0
345 D192   O202    0    0    1    0    0
346 D192   O205    0    0    1    0    0
347 D192   O207    0    0    1    0    0
348 D196   D200    0    0    1    0    1
349 D196   D202    0    0    1    0    1
350 D196   D205    0    0    1    0    1
351 D196   D207    0    0    1    0    1
352 D196   L183    0    0    1    0    0
353 D196   L189    0    0    1    0    0
354 D196   L192    0    0    1    0    0
355 D196   L196    0    1    1    0    0
356 D196   L200    0    0    1    0    0
357 D196   L202    0    0    1    0    0
358 D196   L205    0    0    1    0    0
359 D196   L207    0    0    1    0    0
360 D196   O183    0    0    1    0    0
361 D196   O189    0    0    1    0    0
362 D196   O192    0    0    1    0    0
363 D196   O196    0    1    1    0    0
364 D196   O200    0    0    1    0    0
365 D196   O202    0    0    1    0    0
366 D196   O205    0    0    1    0    0
367 D196   O207    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
377 D200   L205    0    0    1    0    0
378 D200   L207    0    0    1    0    0
379 D200   O183    0    0    1    0    0
380 D200   O189    0    0    1    0    0
381 D200   O192    0    0    1    0    0
382 D200   O196    0    0    1    0    0
383 D200   O200    0    1    1    0    0
384 D200   O202    0    0    1    0    0
385 D200   O205    0    0    1    0    0
386 D200   O207    0    0    1    0    0
```

LEP Combination for the Summer 2001 Conferences (http://lepewwg.web.cern.ch/LEPEWWG/lepww/4f/Summer01). The output results may differ because of rounding errors.

```
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   O183    0    0    1    0    0
398 D202   O189    0    0    1    0    0
399 D202   O192    0    0    1    0    0
400 D202   O196    0    0    1    0    0
401 D202   O200    0    0    1    0    0
402 D202   O202    0    1    1    0    0
403 D202   O205    0    0    1    0    0
404 D202   O207    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   O183    0    0    1    0    0
415 D205   O189    0    0    1    0    0
416 D205   O192    0    0    1    0    0
417 D205   O196    0    0    1    0    0
418 D205   O200    0    0    1    0    0
419 D205   O202    0    0    1    0    0
420 D205   O205    0    1    1    0    0
421 D205   O207    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   O183    0    0    1    0    0
431 D207   O189    0    0    1    0    0
432 D207   O192    0    0    1    0    0
433 D207   O196    0    0    1    0    0
434 D207   O200    0    0    1    0    0
435 D207   O202    0    0    1    0    0
436 D207   O205    0    0    1    0    0
437 D207   O207    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
```

LEP Combination for the Summer 2001 Conferences (http://lepewwg.web.cern.ch/LEPEWWG/lepww/4f/Summer01). The output results may differ because of rounding errors.

```
444 L183   L207    0    0    1    0    1
445 L183   O183    0    1    1    0    0
446 L183   O189    0    0    1    0    0
447 L183   O192    0    0    1    0    0
448 L183   O196    0    0    1    0    0
449 L183   O200    0    0    1    0    0
450 L183   O202    0    0    1    0    0
451 L183   O205    0    0    1    0    0
452 L183   O207    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   O183    0    0    1    0    0
460 L189   O189    0    1    1    0    0
461 L189   O192    0    0    1    0    0
462 L189   O196    0    0    1    0    0
463 L189   O200    0    0    1    0    0
464 L189   O202    0    0    1    0    0
465 L189   O205    0    0    1    0    0
466 L189   O207    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   O183    0    0    1    0    0
473 L192   O189    0    0    1    0    0
474 L192   O192    0    1    1    0    0
475 L192   O196    0    0    1    0    0
476 L192   O200    0    0    1    0    0
477 L192   O202    0    0    1    0    0
478 L192   O205    0    0    1    0    0
479 L192   O207    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   O183    0    0    1    0    0
485 L196   O189    0    0    1    0    0
486 L196   O192    0    0    1    0    0
487 L196   O196    0    1    1    0    0
488 L196   O200    0    0    1    0    0
489 L196   O202    0    0    1    0    0
490 L196   O205    0    0    1    0    0
491 L196   O207    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   O183    0    0    1    0    0
496 L200   O189    0    0    1    0    0
497 L200   O192    0    0    1    0    0
498 L200   O196    0    0    1    0    0
499 L200   O200    0    1    1    0    0
500 L200   O202    0    0    1    0    0
```

LEP Combination for the Summer 2001 Conferences (http://lepewwg.web.cern.ch/LEPEWWG/lepww/4f/Summer01). The output results may differ because of rounding errors.

```
L200    O205    0    0    1    0    0
L200    O207    0    0    1    0    0
L202    L205    0    0    1    0    1
L202    L207    0    0    1    0    1
L202    O183    0    0    1    0    0
L202    O189    0    0    1    0    0
L202    O192    0    0    1    0    0
L202    O196    0    0    1    0    0
L202    O200    0    0    1    0    0
L202    O202    0    1    1    0    0
L202    O205    0    0    1    0    0
L202    O207    0    0    1    0    0
L205    L207    0    0    1    0    1
L205    O183    0    0    1    0    0
L205    O189    0    0    1    0    0
L205    O192    0    0    1    0    0
L205    O196    0    0    1    0    0
L205    O200    0    0    1    0    0
L205    O202    0    0    1    0    0
L205    O205    0    1    1    0    0
L205    O207    0    0    1    0    0
L207    O183    0    0    1    0    0
L207    O189    0    0    1    0    0
L207    O192    0    0    1    0    0
L207    O196    0    0    1    0    0
L207    O200    0    0    1    0    0
L207    O202    0    0    1    0    0
L207    O205    0    0    1    0    0
L207    O207    0    1    1    0    0
O183    O189    0    0    1    0    1
O183    O192    0    0    1    0    1
O183    O196    0    0    1    0    1
O183    O200    0    0    1    0    1
O183    O202    0    0    1    0    1
O183    O205    0    0    1    0    1
O183    O207    0    0    1    0    1
O189    O192    0    0    1    0    1
O189    O196    0    0    1    0    1
O189    O200    0    0    1    0    1
O189    O202    0    0    1    0    1
O189    O205    0    0    1    0    1
O189    O207    0    0    1    0    1
O192    O196    0    0    1    0    1
O192    O200    0    0    1    0    1
O192    O202    0    0    1    0    1
O192    O205    0    0    1    0    1
O192    O207    0    0    1    0    1
O196    O200    0    0    1    0    1
O196    O202    0    0    1    0    1
O196    O205    0    0    1    0    1
O196    O207    0    0    1    0    1
O200    O202    0    0    1    0    1
O200    O205    0    0    1    0    1
O200    O207    0    0    1    0    1
O202    O205    0    0    1    0    1
O202    O207    0    0    1    0    1
O205    O207    0    0    1    0    1
```

LEP Combination for the Summer 2001 Conferences (http://lepewwg.web.cern.ch/LEPEWWG/lepww/4f/Summer01). The output results may differ because of rounding errors.

Input data file: `sww.bfin`.