

1 Nominal correlations.

| Measurements | CVW ₁₈₃ /% | CVW ₁₈₉ /% | CVW ₁₉₂ /% | CVW ₁₉₆ /% | CVW ₂₀₀ /% | CVW ₂₀₂ /% | CVW ₂₀₅ /% | CVW ₂₀₇ /% | 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 | CVW ₁₈₃ /% | CVW ₁₈₉ /% | CVW ₁₉₂ /% | CVW ₁₉₆ /% | CVW ₂₀₀ /% | CVW ₂₀₂ /% | CVW ₂₀₅ /% | CVW ₂₀₇ /% | 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 | CVW ₁₈₃ /% | CVW ₁₈₉ /% | CVW ₁₉₂ /% | CVW ₁₉₆ /% | CVW ₂₀₀ /% | CVW ₂₀₂ /% | CVW ₂₀₅ /% | CVW ₂₀₇ /% | 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 | CVW ₁₈₃ /% | CVW ₁₈₉ /% | CVW ₁₉₂ /% | CVW ₁₉₆ /% | CVW ₂₀₀ /% | CVW ₂₀₂ /% | CVW ₂₀₅ /% | CVW ₂₀₇ /% | 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 | CVW ₁₈₃ /% | CVW ₁₈₉ /% | CVW ₁₉₂ /% | CVW ₁₉₆ /% | CVW ₂₀₀ /% | CVW ₂₀₂ /% | CVW ₂₀₅ /% | CVW ₂₀₇ /% | 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 | CVW ₁₈₃ /% | CVW ₁₈₉ /% | CVW ₁₉₂ /% | CVW ₁₉₆ /% | CVW ₂₀₀ /% | CVW ₂₀₂ /% | CVW ₂₀₅ /% | CVW ₂₀₇ /% | 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 | CVW ₁₈₃ /% | CVW ₁₈₉ /% | CVW ₁₉₂ /% | CVW ₁₉₆ /% | CVW ₂₀₀ /% | CVW ₂₀₂ /% | CVW ₂₀₅ /% | CVW ₂₀₇ /% | 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 | CVW ₁₈₃ /% | CVW ₁₈₉ /% | CVW ₁₉₂ /% | CVW ₁₉₆ /% | CVW ₂₀₀ /% | CVW ₂₀₂ /% | CVW ₂₀₅ /% | CVW ₂₀₇ /% | 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 ($\chi^2/\text{ndof} = 27.42/24$). 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | CVW ₁₈₃ /% | CVW ₁₈₉ /% | CVW ₁₉₂ /% | CVW ₁₉₆ /% | CVW ₂₀₀ /% | CVW ₂₀₂ /% | CVW ₂₀₅ /% | CVW ₂₀₇ /% | 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 | CVW ₁₈₃ /% | CVW ₁₈₉ /% | CVW ₁₉₂ /% | CVW ₁₉₆ /% | CVW ₂₀₀ /% | CVW ₂₀₂ /% | CVW ₂₀₅ /% | CVW ₂₀₇ /% | 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 | CVW ₁₈₃ /% | CVW ₁₈₉ /% | CVW ₁₉₂ /% | CVW ₁₉₆ /% | CVW ₂₀₀ /% | CVW ₂₀₂ /% | CVW ₂₀₅ /% | CVW ₂₀₇ /% | 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 | CVW ₁₈₃ /% | CVW ₁₈₉ /% | CVW ₁₉₂ /% | CVW ₁₉₆ /% | CVW ₂₀₀ /% | CVW ₂₀₂ /% | CVW ₂₀₅ /% | CVW ₂₀₇ /% | 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 | CVW ₁₈₃ /% | CVW ₁₈₉ /% | CVW ₁₉₂ /% | CVW ₁₉₆ /% | CVW ₂₀₀ /% | CVW ₂₀₂ /% | CVW ₂₀₅ /% | CVW ₂₀₇ /% | 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 | CVW ₁₈₃ /% | CVW ₁₈₉ /% | CVW ₁₉₂ /% | CVW ₁₉₆ /% | CVW ₂₀₀ /% | CVW ₂₀₂ /% | CVW ₂₀₅ /% | CVW ₂₀₇ /% | 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 | CVW ₁₈₃ /% | CVW ₁₈₉ /% | CVW ₁₉₂ /% | CVW ₁₉₆ /% | CVW ₂₀₀ /% | CVW ₂₀₂ /% | CVW ₂₀₅ /% | CVW ₂₀₇ /% | 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 | CVW ₁₈₃ /% | CVW ₁₈₉ /% | CVW ₁₉₂ /% | CVW ₁₉₆ /% | CVW ₂₀₀ /% | CVW ₂₀₂ /% | CVW ₂₀₅ /% | CVW ₂₀₇ /% | 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 ($\chi^2/\text{ndof} = 22.98/24$). 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.

```

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: 'MEAAVAL' 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 0183 0189
38         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 183 189 192 196 200 202 205 207 183 189 192 196 200 202 205 207 183 189 192 196 200 202 205 207 183 189
41         192 196 200 202 205 207
42 # === From echo 'cat sww.in | egrep '\+(A|D|L|O)' | awk '{print $3}'
43 MEAAVAL 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
44         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 590 560 810 600 430 670 370 900 550 570 850 590 450 610 340
47         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 0 0
50         0 0 0 0 0 0
51 # === From echo 'cat sww.in | egrep '\+(A|D|L|O)' | awk '{print $8}' | sed 's| | |g'
52 LCEC      90 50 50 50 50 50 50 50 85 70 70 70 70 80 60 60 80 44 80 80 80 80 80 140 65
53         120 120 99 115 96 92
54 # === From echo 'cat sww.in | egrep '\+(A|D|L|O)' | awk '{print $9}' | sed 's| | |g'

```

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```

49 LUEU      93      89      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
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     148     235     181     200     200     200     206     205     195     205     202     210     210     210     210     210     210     219     168
52      402     413     367     404     357     369
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
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

```

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| | | | | | | | |
|-----|------|------|---|---|---|---|---|
| 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 |

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.

| | | | | | | | |
|-----|------|------|---|---|---|---|---|
| 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 |

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.

| | | | | | | | |
|-----|------|------|---|---|---|---|---|
| 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 |

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.

| | | | | | | | |
|-----|------|------|---|---|---|---|---|
| 273 | A207 | L207 | 0 | 1 | 1 | 0 | 0 |
| 274 | A207 | 0183 | 0 | 0 | 1 | 0 | 0 |
| 275 | A207 | 0189 | 0 | 0 | 1 | 0 | 0 |
| 276 | A207 | 0192 | 0 | 0 | 1 | 0 | 0 |
| 277 | A207 | 0196 | 0 | 0 | 1 | 0 | 0 |
| 278 | A207 | 0200 | 0 | 0 | 1 | 0 | 0 |
| 279 | A207 | 0202 | 0 | 0 | 1 | 0 | 0 |
| 280 | A207 | 0205 | 0 | 0 | 1 | 0 | 0 |
| 281 | A207 | 0207 | 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 | 0183 | 0 | 1 | 1 | 0 | 0 |
| 298 | D183 | 0189 | 0 | 0 | 1 | 0 | 0 |
| 299 | D183 | 0192 | 0 | 0 | 1 | 0 | 0 |
| 300 | D183 | 0196 | 0 | 0 | 1 | 0 | 0 |
| 301 | D183 | 0200 | 0 | 0 | 1 | 0 | 0 |
| 302 | D183 | 0202 | 0 | 0 | 1 | 0 | 0 |
| 303 | D183 | 0205 | 0 | 0 | 1 | 0 | 0 |
| 304 | D183 | 0207 | 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 | 0183 | 0 | 0 | 1 | 0 | 0 |
| 320 | D189 | 0189 | 0 | 1 | 1 | 0 | 0 |
| 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 |

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| | | | | | | | |
|-----|------|------|---|---|---|---|---|
| 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 | 0183 | 0 | 0 | 1 | 0 | 0 |
| 341 | D192 | 0189 | 0 | 0 | 1 | 0 | 0 |
| 342 | D192 | 0192 | 0 | 1 | 1 | 0 | 0 |
| 343 | D192 | 0196 | 0 | 0 | 1 | 0 | 0 |
| 344 | D192 | 0200 | 0 | 0 | 1 | 0 | 0 |
| 345 | D192 | 0202 | 0 | 0 | 1 | 0 | 0 |
| 346 | D192 | 0205 | 0 | 0 | 1 | 0 | 0 |
| 347 | D192 | 0207 | 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 | 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 |
| 377 | D200 | L205 | 0 | 0 | 1 | 0 | 0 |
| 378 | D200 | L207 | 0 | 0 | 1 | 0 | 0 |
| 379 | D200 | 0183 | 0 | 0 | 1 | 0 | 0 |
| 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 |

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| | | | | | | | |
|-----|------|------|---|---|---|---|---|
| 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 |

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| | | | | | | | |
|-----|------|------|---|---|---|---|---|
| 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 |

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| | | | | | | | |
|-----|------|------|---|---|---|---|---|
| 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 |

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Input data file: `sww.bfin`.