## correlation\_matrix

| 0.000149776      | -1.3591e-05  | -4.8817e-05  | -0.0547981   | -4.23417e-06 | -2.36821e-05 | -3.56679e-07 | -2.72279e-08 | -3.49548e-07 | 1               |
|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------|
| _                |              |              |              |              |              |              |              |              |                 |
|                  | -1.36186e-07 | 3.72833e-08  | -0.000539384 | -4.27258e-08 | -2.00609e-07 | -3.08742e-09 | -8.26871e-11 | 1            | -3.49548e-0     |
| <br>8.00281e-09  | -7.39115e-11 | -2.01216e-08 | -5.54793e-07 | -4.19504e-11 | -4.05805e-08 | 1.06584e-11  | 1            | -8.26871e-11 | -2.72279e-0     |
| —<br>7.89404e-08 | -1.24963e-07 | -2.38319e-08 | -0.000495977 | -3.90989e-08 | -2.45276e-07 | 1            | 1.06584e-11  | -3.08742e-09 | -3.56679e-(     |
| <br>0.000220546  | -7.92799e-06 | -9.82727e-05 | -0.0316579   | -2.46357e-06 | 1            | -2.45276e-07 | -4.05805e-08 | -2.00609e-07 | -2.36821e-      |
|                  | -1.7502e-06  | 1.50273e-07  | -0.00694297  | 1            | -2.46357e-06 | -3.90989e-08 | -4.19504e-11 | -4.27258e-08 | -4.23417e-      |
|                  |              | 0.00197876   |              | •            |              |              |              | -0.000539384 |                 |
| _                |              |              |              |              |              |              |              |              |                 |
| ).000170872<br>— | 4.57294e-07  | 1            | 0.00197876   | 1.50273e-07  | -9.82727e-05 | -2.38319e-08 | -2.01216e-08 | 3.72833e-08  | -4.8817e-0<br>— |
| 7.42336e-07<br>  | 1            | 4.57294e-07  | -0.0221752   | -1.7502e-06  | -7.92799e-06 | -1.24963e-07 | -7.39115e-11 | -1.36186e-07 | -1.3591e-0<br>— |
| 1                | -7.42336e-07 | 0.000170872  | -0.00310278  | -1.43231e-07 | 0.000220546  | -7.89404e-08 | -8.00281e-09 | -7.06489e-08 | 0.00014977      |