## correlation\_matrix

1.6407e-08 -3.8304e-09 1.35827e-08 -2.41038e-06 -1.15511e-09 2.26144e-08 -1.56793e-10 1 -1.04624e-10 5.1801e-1 -5.3113e-08 -6.28756e-07 -6.55272e-07 -0.000334174 -1.97343e-07 -1.42142e-06 1 -1.56793e-10 -1.58202e-08 -1.34272e-10 -0.00034275 -5.75241e-05 3.2321e-05 -0.0313062 -1.80631e-05 1 -1.42142e-06 2.26144e-08 -1.48672e-06 -0.0001106-1.57291e-06 -7.81221e-06 -8.6817e-06 -0.0041576 1 -1.80631e-05 -1.97343e-07 -1.15511e-09 -1.95258e-07 -1.67949e-10.00503276 -0.0132387 -0.015628 1 -0.0041576 -0.0313062 -0.000334174 -2.41038e-06 -0.000328519 -0.028340-10.00023703 -2.76115e-05 1 -0.015628 -8.6817e-06 3.2321e-05 -6.55272e-07 1.35827e-08 -7.3233e-07 -2.6168e-10.00023703 -2.76115e-05 -0.0132387 -7.81221e-06 -5.75241e-05 -6.28756e-07 -3.8304e-09 -6.21634e-07 -5.34836e-10.00023703 -2.76115e-05 -0.0132387 -7.81221e-06 -5.75241e-05 -6.28756e-07 -3.8304e-09 -6.21634e-07 -5.34836e-10.00023703 -0.00023703 -0.00023703 -0.00023703 -0.0002387 -7.81221e-06 -5.75241e-05 -6.28756e-07 -3.8304e-09 -6.21634e-07 -5.34836e-10.00023703 -0.000237	0.00011798 —	-5.34836e-05	-2.6168e-05	-0.0283405	-1.67949e-05	-0.000110027	-1.34272e-06	5.1801e-10	-1.35043e-06	1
1.6407e-08 -3.8304e-09 1.35827e-08 -2.41038e-06 -1.15511e-09 2.26144e-08 -1.56793e-10 1 -1.04624e-10 5.1801e-1 -5.3113e-08 -6.28756e-07 -6.55272e-07 -0.000334174 -1.97343e-07 -1.42142e-06 1 -1.56793e-10 -1.58202e-08 -1.34272e-10 -0.00034275 -5.75241e-05 3.2321e-05 -0.0313062 -1.80631e-05 1 -1.42142e-06 2.26144e-08 -1.48672e-06 -0.0001100 -1.57291e-06 -7.81221e-06 -8.6817e-06 -0.0041576 1 -1.80631e-05 -1.97343e-07 -1.15511e-09 -1.95258e-07 -1.67949e-10.00503276 -0.0132387 -0.015628 1 -0.0041576 -0.0313062 -0.000334174 -2.41038e-06 -0.000328519 -0.028340 -0.00023703 -2.76115e-05 1 -0.015628 -8.6817e-06 3.2321e-05 -6.55272e-07 1.35827e-08 -7.3233e-07 -2.6168e-10.00023703 -2.76115e-05 -0.0132387 -7.81221e-06 -5.75241e-05 -6.28756e-07 -3.8304e-09 -6.21634e-07 -5.34836e-10.00023703 -2.76115e-05 -0.0132387 -7.81221e-06 -5.75241e-05 -6.28756e-07 -3.8304e-09 -6.21634e-07 -5.34836e-10.00023703 -0.000237	_									_
	1.76796e-07	-6.21634e-07	-7.3233e-07	-0.000328519	-1.95258e-07	-1.48672e-06	-1.58202e-08	-1.04624e-10	1	-1.35043e-0
0.00034275 -5.75241e-05 3.2321e-05 -0.0313062 -1.80631e-05 1 -1.42142e-06 2.26144e-08 -1.48672e-06 -0.0001106	1.6407e-08	-3.8304e-09	1.35827e-08	-2.41038e-06	-1.15511e-09	2.26144e-08	-1.56793e-10	1	-1.04624e-10	5.1801e-10
1.57291e-06 -7.81221e-06 -8.6817e-06 -0.0041576	 5.3113e-08	-6.28756e-07	-6.55272e-07	-0.000334174	-1.97343e-07	-1.42142e-06	1	-1.56793e-10	-1.58202e-08	-1.34272e-(
0.00503276 -0.0132387 -0.015628	 ).00034275	-5.75241e-05	3.2321e-05	-0.0313062	-1.80631e-05	1	-1.42142e-06	2.26144e-08	-1.48672e-06	-0.0001100
-0.00023703 -2.76115e-05	— 1.57291e-06	-7.81221e-06	-8.6817e-06	-0.0041576	1	-1.80631e-05	-1.97343e-07	-1.15511e-09	-1.95258e-07	-1.67949e-0
	0.00503276	-0.0132387	-0.015628	1	-0.0041576	-0.0313062	-0.000334174	-2.41038e-06	-0.000328519	-0.028340
	0.00023703	-2.76115e-05	1	-0.015628	-8.6817e-06	3.2321e-05	-6.55272e-07	1.35827e-08	-7.3233e-07	-2.6168e-0
14.99319e-06_0.000237030.005032761.57291e-06_0.000342755.3113e-08_1.6407e-081.76796e-070.0001179	 1.99319e-06	1	-2.76115e-05	-0.0132387	-7.81221e-06	-5.75241e-05	-6.28756e-07	-3.8304e-09	-6.21634e-07	-5.34836e-0
	1	-4.99319e-06	0.00023703	-0.00503276	-1.57291e-06	0.00034275	-5.3113e-08	1.6407e-08	-1.76796e-07	 0.0001179 