Par1 =

[ I2\_yy + I1\_zz + I4\_yy, I2\_yz + I4\_yz, I2\_zz + I3\_zz + I5\_yy + I4\_zz + I6\_yy, I3\_xx + I5\_xx + I6\_xx, I3\_xy + I5\_xz, I3\_xz, I3\_yy + I5\_zz, I3\_yz, I5\_xy + I6\_xy, I5\_yz, I6\_xz, I6\_yz, I6\_zz, I7\_xx, I7\_xy, I7\_xz, I7\_yy, I7\_yz, I7\_zz + I9\_zz, I8\_xx, I8\_xy, I8\_xz, I8\_yy, I8\_yz, I8\_zz, I9\_xx, I9\_xy, I9\_xz, I9\_yy, I9\_yz, lc1\_2\_m1, lc1\_m1, lc2\_2\_m2 + lc4\_2\_m4 + lc5\_2\_m5 + lc6\_2\_m6 + lc9\_2\_m9, lc2\_m2 + lc4\_m4, lc5\_m5 + lc6\_m6, lc7\_2\_m7, lc7\_m7, lc7\_m8, lc8\_2\_m8, lc8\_m8, lc9\_m9, m3, m5 + m6, m7, m8, m9]

Par2 =

[ I2\_yy + I1\_zz + I4\_yy + beta12\*(I9\_xx + I9\_yy\*beta4 + beta6\*lc1\_2\_m1), I2\_yz + I4\_yz, I2\_zz + I3\_zz + I5\_yy + I4\_zz + I6\_yy + beta8\*m3 + beta9\*(I3\_xz + beta7\*(I3\_yy + I5\_zz + beta5\*(I3\_yz + I5\_yz\*beta2)) + beta3\*(I5\_xy + I6\_xy)) + beta13\*(I7\_zz + I9\_zz) + beta11\*(I3\_xx + I5\_xx + I6\_xx + beta10\*(m5 + m6)), I3\_xy + I5\_xz, I6\_xz, I6\_yz, I6\_zz, I7\_xx + I8\_xx\*beta15 + I7\_yy\*beta14, I7\_xy, I7\_xz, I7\_yz, I8\_xy, I8\_xz, I8\_yy, I8\_yz, I8\_zz, I9\_xy, I9\_xz, I9\_yz, lc1\_m1, lc2\_2\_m2 + lc4\_2\_m4 + lc5\_2\_m5 + lc6\_2\_m6 + lc9\_2\_m9, lc2\_m2 + lc4\_m4 + beta16\*(lc5\_m5 + lc6\_m6), lc7\_2\_m7, lc7\_m7, lc7\_m8, lc8\_2\_m8, lc8\_m8, lc9\_m9, m7 + beta1\*m8, m9]

Par2 =

[ I2\_yy + I1\_zz + I4\_yy + beta14\*(I3\_xx + I5\_xx + I6\_xx + I7\_xx\*beta7) + beta12\*(I7\_zz + I9\_zz + beta3\*lc1\_2\_m1), I2\_yz + I4\_yz, I2\_zz + I3\_zz + I5\_yy + I4\_zz + I6\_yy + beta11\*(lc2\_2\_m2 + lc4\_2\_m4 + lc5\_2\_m5 + lc6\_2\_m6 + lc9\_2\_m9), I3\_xy + I5\_xz, I3\_xz + beta9\*m3 + beta13\*(I3\_yz + I5\_yz\*beta5) + beta6\*(I5\_xy + I6\_xy) + beta10\*(lc2\_m2 + lc4\_m4) + beta15\*(lc5\_m5 + lc6\_m6), I3\_yy + I5\_zz + beta4\*(I9\_xx + I9\_yy\*beta2), I6\_xz, I6\_yz, I6\_zz, I7\_xy, I7\_xz, I7\_yy, I7\_yz, I8\_xx, I8\_xy, I8\_xz, I8\_yy, I8\_yz, I8\_zz, I9\_xy, I9\_xz, I9\_yz, lc1\_m1, lc7\_2\_m7, lc7\_m7, lc7\_m8, lc8\_2\_m8, lc8\_m8, lc9\_m9, m5 + m6 + beta8\*(m7 + beta1\*m8), m9]

Par2 =

[ I2\_yy + I1\_zz + I4\_yy + beta6\*lc1\_2\_m1 + beta10\*(I3\_yy + I5\_zz), I2\_yz + I4\_yz, I2\_zz + I3\_zz + I5\_yy + I4\_zz + I6\_yy + beta3\*m3 + beta5\*(lc2\_2\_m2 + lc4\_2\_m4 + lc5\_2\_m5 + lc6\_2\_m6 + lc9\_2\_m9), I3\_xx + I5\_xx + I6\_xx + beta1\*(I7\_zz + I9\_zz), I3\_xy + I5\_xz, I3\_xz + beta8\*(lc2\_m2 + lc4\_m4 + beta7\*m7) + beta13\*(I3\_yz + I5\_yz\*beta9) + beta4\*(I5\_xy + I6\_xy) + beta15\*(lc5\_m5 + lc6\_m6), I6\_xz, I6\_yz, I6\_zz, I7\_xx + I7\_yy\*beta14 + beta12\*(I9\_xx + I9\_yy\*beta11), I7\_xy, I7\_xz, I7\_yz, I8\_xx, I8\_xy, I8\_xz, I8\_yy, I8\_yz, I8\_zz, I9\_xy, I9\_xz, I9\_yz, lc1\_m1, lc7\_2\_m7, lc7\_m7, lc7\_m8, lc8\_2\_m8, lc8\_m8, lc9\_m9, m5 + m6 + beta2\*m8, m9]

Par2 =

[ I2\_yy + I1\_zz + I4\_yy + beta4\*lc1\_2\_m1 + beta12\*(I2\_zz + I3\_zz + I5\_yy + I4\_zz + I6\_yy + beta10\*m3 + beta6\*(I3\_yy + I5\_zz) + beta11\*(I3\_xz + beta9\*(lc2\_2\_m2 + lc4\_2\_m4 + lc5\_2\_m5 + lc6\_2\_m6 + lc9\_2\_m9) + beta7\*(I3\_yz + I5\_yz\*beta3) + beta5\*(I5\_xy + I6\_xy) + beta8\*(lc2\_m2 + lc4\_m4))), I2\_yz + I4\_yz, I3\_xx + I5\_xx + I6\_xx, I3\_xy + I5\_xz, I6\_xz, I6\_yz, I6\_zz, I7\_xx + I8\_xx\*beta14, I7\_xy, I7\_xz, I7\_yy, I7\_yz, I7\_zz + I9\_zz + beta15\*(I9\_xx + I9\_yy\*beta13), I8\_xy, I8\_xz, I8\_yy, I8\_yz, I8\_zz, I9\_xy, I9\_xz, I9\_yz, lc1\_m1, lc5\_m5 + lc6\_m6, lc7\_2\_m7, lc7\_m7, lc7\_m8, lc8\_2\_m8, lc8\_m8, lc9\_m9, m5 + m6 + beta1\*m7 + beta2\*m8, m9]